

## SEARCH REQUEST FORM

Requestor's Name: \_\_\_\_\_ Serial Number: \_\_\_\_\_  
Date: \_\_\_\_\_ Phone: \_\_\_\_\_ Art Unit: \_\_\_\_\_

### Search Topic:

Please write a detailed statement of search topic. Describe specifically as possible the subject matter to be searched. Define any terms that may have a special meaning. Give examples or relevant citations, authors, keywords, etc., if known. For sequences, please attach a copy of the sequence. You may include a copy of the broadest and/or most relevant claim(s).

### STAFF USE ONLY

Date completed: 10-20-03  
Searcher: Beverly E 4954  
Terminal time: 20  
Elapsed time: \_\_\_\_\_  
CPU time: \_\_\_\_\_  
Total time: 23  
Number of Searches: \_\_\_\_\_  
Number of Databases: 1

Search Site  
\_\_\_\_ STIC  
\_\_\_\_ CM-1  
\_\_\_\_ Pre-S  
Type of Search  
\_\_\_\_ N.A. Sequence  
\_\_\_\_ A.A. Sequence  
\_\_\_\_ Structure  
\_\_\_\_ Bibliographic

Vendors  
\_\_\_\_ IG  
\_\_\_\_ STN  
\_\_\_\_ Dialog  
\_\_\_\_ APS  
\_\_\_\_ Geninfo  
\_\_\_\_ SDC  
\_\_\_\_ DARC/Questel  
\_\_\_\_ Other CGN

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: October 16, 2003, 09:24:16 ; Search time 277 Seconds  
(without alignments)  
8602.987 Million cell updates/sec

Title: US-09-129-603-1

Perfect score: 5399

Sequence: 1 agaatcttcacatctcgaaa.....tgataacatcttatgaaat 5399

Scoring table: IDENTITY\_NJC

Gapop 10.0 , Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139356

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA:\*

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2: /cgn2\_6/ptodata/2/ina/5B COMB.seq:\*

3: /cgn2\_6/ptodata/2/ina/6A COMB.seq:\*

4: /cgn2\_6/ptodata/2/ina/6B COMB.seq:\*

5: /cgn2\_6/ptodata/2/ina/PCFJS COMB.seq:\*

6: /cgn2\_6/ptodata/2/ina/backfile.esl.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1314.2	24.3	5319	2	US-08-861-464-7
2	1314.2	24.3	5319	2	US-08-396-001-7
3	1314.2	24.3	5319	3	US-09-323-433A-7
4	728.6	13.5	734	4	US-03-702-705-1431
5	728.6	13.5	734	4	US-09-736-457-1431
6	206.6	3.8	43676	3	US-09-356-952-12
7	106	2.0	4000	2	US-08-861-464-5
8	106	2.0	4000	2	US-08-396-001-5
9	106	2.0	4000	3	US-09-323-433A-5
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25	51.4	1.0	32207	3	US-08-757-669A-20
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27	49	0.9	4185	4	US-09-417-485D-7

C 28 48 0.9 2793 1 US-08-209-747-1 Sequence 1, Appli

C 29 48 0.9 2793 1 US-08-458-298-1 Sequence 1, Appli

C 30 47.6 0.9 8063 4 US-09-091-952A-6 Sequence 6, Appli

C 31 47.6 0.9 20674 4 US-09-641-638-651 Sequence 651, App

C 32 46.6 0.9 1374 4 US-09-601-198-158 Sequence 158, App

C 33 45.8 0.8 1010 4 US-09-569-098A-105 Patent No. 5231168

C 34 45.8 0.8 3095 6 5231168-1 Sequence 9, Appli

C 35 45.4 0.8 2190 4 US-09-625-188-19 Sequence 8, Appli

C 36 45.2 0.8 1511 1 US-07-991-867B-8 Sequence 8, Appli

C 37 45.2 0.8 1511 1 US-08-107-755A-8 Sequence 8, Appli

C 38 45.2 0.8 1511 2 US-08-544-332-8 Sequence 8, Appli

C 39 45.2 0.8 1511 4 US-09-370-861A-8 Sequence 3, Appli

C 40 45.2 0.8 1988 3 US-09-402-0C2-3 Sequence 2, Appli

C 41 45.2 0.8 5852 1 US-07-867-106-2 Sequence 3, Appli

C 42 45 0.8 557 4 US-09-527-345-3 Sequence 5, Appli

C 43 44.6 0.8 10640 4 US-09-417-485D-5 Sequence 1, Appli

C 44 44.6 0.8 162450 4 US-09-345-882-1 Sequence 1, Appli

C 45 44.2 0.8 1689 1 US-07-991-867B-41 Sequence 41, Appli

#### ALIGNMENTS

RESULT 1

US-08-861-464-7

; Sequence 7, Application US/08561464

; Patent No. 5874210

; GENERAL INFORMATION:

; APPLICANT: Guarente, Leonard P.

; APPLICANT: Austriaco Jr., Nicancor

; APPLICANT: Kennedy, Brian

; TITLE OF INVENTION: Genes Determining Cellular Senescence

; TITLE OF INVENTION: in Yeast

; NUMBER OF SEQUENCES: 15

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.

; STREET: Two Militia Drive

; CITY: Lexington

; STATE: MA

; COUNTRY: USA

; ZIP: 02173

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/861.464

; FILING DATE: 22-MAY-1997

; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/396,001

; FILING DATE: 28-FEB-1995

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: PCT/US94/09351

; FILING DATE: 15-JUG-1994

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/107,408

; FILING DATE: 16-AUG-1993

; ATTORNEY/AGENT INFORMATION:

; NAME: Gratahar, Patricia

; REGISTRATION NUMBER: 32,227

; REFERENCE/CKET NUMBER: MIT-6408A22

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 781-861-6240

; TELEFAX: 781-861-9540

; INFORMATION FOR SEQ ID NO: 7:

; LENGTH: 539 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: double

; TOPOLOGY: linear

; MOLECULE TYPE: DNA (genomic)

FEATURE:	NAME/KEY:	CDS	LOCATION:	57..3614	FEATURE:	NAME/KEY:	mat_peptide	LOCATION:	57..3614	US-06-862-464-7
Query Match	Best Local Similarity	24.3%	Score	1314.2	DB 2:	Length	5319:			
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QY	210	ATGCAATAGCAGCAGCTCAGCAGCCACATATAGCTGGTGTATTTTCAGCAGGCTTGGCTC	269							
DB	1276	ATGCACTGGCAGCTGCTCATCAGCCGCACAT-----CGGTTAGCTC	1317							
QY	270	CAGCTGCATTTGTGCCAATCCATACATTTATAGTGCCTGCTCTCCAGGGACCATCCGT	329							
DB	1318	CGCTGGCGTGTGTCGCCAATCCATACATCATCAGGCTGCTCCGCCAGGGACGACCCCT	1377							
QY	330	ATACTGCAAGCAGGATGGCTGCAGCAGCTACATTAGCAGGTCCTCAGCAGTGGTTCAGCTC	389							
DB	1378	ACA----CAGCTGGATTGGCTGCAGCAGCAGCTAGGCCAGCTGGTCCCTCAACAGT	1434							
QY	390	ACTATTACGGCTTCATGGGGGTGATCAGCGCACTTATTTACGAGCAA-----G	443							
DB	1435	ATTAATGAGATTTACTCCCTGGGGAGTCTACCTGGCCAGTCTTTTCAGCAGCAAGCTCCCG	1494							
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DB	1675	GACAAGGCTCTGCAGCAGCATGCCAGTTATCCGGTCTTGGCTCTGCTTACTATTG	1734							
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DB	1735	ACCAAACTGGTGCCCTTGTAGTGAATGAGCGCGAGAAATGGTCTTGGAGCTCTCTGTC	1794							
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QY	795	CAGCAGCAGCAGCAGCTGGAGGAACTGCAAGTAGCCTTACAGGAGCAGCAATGGTCTGT	854							
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QY	855	TTCCGCCCAATGGCACTCAGCCACACACAG3---CAGCAGCAACAGCAGCCAGCACTAATC	911							
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QY	912	TGCAATCTAAATTCATTTTATGGAAGCAGTCTTTTGAATTAATAGCTTCCAGAGTAGTCTCT	971							

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DB 3115 ACCAGACACTCCTATTTTAGAGGAGCTTCCAGCAGCACAGAGCAGCTTGTACAGGATC 3174
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DB 3175 AATATGGAATATGTAAATCCACATGTACTGGAGCAGCTGCTTGGAGTAAAGACA 3234
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QY 2292 AGTTTTGTGTCAGAGATGATGTCTCCTCAGTGCCCTTATACACCATGATGAGGAGCCAGT 2351
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QY 2532 GACCAACCAATGGAATGCTGTAA 2554
DB 3595 GCGCCCTTATGTTATCACTGA 3617
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## RESULT 2

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US-08-396-001-7
; Sequence 7, Application US/08396001
; Patent No. 59,9618
; GENERAL INFORMATION:
; APPLICANT: Guarente, Leonard P.
; APPLICANT: Austriaco Jr., Nicamor
; APPLICANT: Claus, James
; APPLICANT: Cole, Francesca
; APPLICANT: Kennedy, Brian
; TITLE OF INVENTION: Genes Determining Cellular Senescence in
; TITLE OF INVENTION: Yeast
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESS: Hamilton, Brook, Smith & Reynolds, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: MA
; COUNTRY: USA
; ZIP: 02173
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/396,001
; FILING DATE: 29-FEB-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Granahan, Patricia
; REGISTRATION NUMBER: 32,227
; REFERENCE/DOCKET NUMBER: MIT-6408A2
; TELECOMMUNICATION INFORMATION:
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TELEPHONE: 617-961-6240
TELEFAX: 617-961-9540
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5319 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 57..3614
US-08-396-001-7

Query Match 24.3%; Score 1314.2; DB 2; Length 5319;
Best Local Similarity 71.4%; Pred. No. 0;
Matches 1816; Conservative 0; Mismatches 688; Indels 39; Gaps 5;

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QY 210 ATGCATTAGCAGCAGCTCAGCAGCAGCATATAGTGGTGTATCTCAGCAGGCGCTTCTC 269
DB 1276 ATGCATTAGCAGCTGCTCACTCAGCGGCACAT-----GGTTTAGCTC 1317
QY 270 CAGTGTGCTTTGTGCAAAATCCATACATTTAGTGTGCTCTCCAGGAGCGGATCGGT 329
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DB 1378 ACA---CAGGTGATTTGCTGCAAGCAGCAGCTAGGCCAGCTGTGTCTCTCACCAGT 1434
QY 390 AGTATTACGGGCTTCCATGGGGGTGTATCAGGCACTTATTTCAGCAGCA-----G 443
DB 1435 ATTTAGGAGTTACTTCCCTGGGAGTCTACCTGCGAGTCTTTCCAGCAGCAGGCTCGG 1494
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972 TATTTTCTCATGAGCCTGGTCAACCTGGAGTACATCTCTTGGCTTTGGAAGTGGTAACT 2031
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2036 TTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT
1032 CTTTGGGTCTCTATAGCTCAGCCCTCAGTGGATTGGTTCATCAGTTGGCAGTCTG 2091
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1632 TGGTATTTAATGAATTTCTCAAGCAGCCTATCAATTAATGACTGATGTTTGTGCAACT 2691
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1752 GTATTGCTGGTCTGTTTCTACCTTAGCTTGGAGATGTTGCTGCGCGGTTATTCAG 2811
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DB 2995 GTGACAGCCCCAGCTTTTCAATTTATCATGATGCTTTAAGGGACAGGTATTGCTCT 3054
QY 1992 TTTCAACTCATCTCTTATGGCTGGAGAGTAATTCAGCCATCTCTAGAGCATTTGCAC 2051
DB 3055 TATCCACACATCTCTTATGGCTGGAGAGTAATTCAGCCATCTCTAGAGCATTTGCAC 3114
QY 2052 AACAGACCTTACCTATCTTATGAAGAACTCCACCAACATACAGAGCAGTTTGTACAG 2111
DB 3115 ACCAGACACTCTCTTATGGAGAGCTTACAGAGCAGCTTACAGAGCAGCTTGTACAGAT 3174
QY 2112 AGTATGGCAATTTATCTTATTCAGCATCTACTGGACAGCTGACCTGAGAGCAAGACA 2171
DB 3175 AATATGGAAATTTATCTTATTCAGCATCTACTGGAGCAGCTGCTCTGAGGATAAAGCA 3234
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DB 3415 ATGCAAAATAGCTGCTTCAAAAGATGATGATGCTGAGCTTCACTCTCTCTCTCTCTCT 3474
QY 2412 TCATGCAAGATTCGAGCTCACTTACTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2471
DB 3475 TCATGCAAGATTCGAGCTCACTTACTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 3534
QY 2472 TACTGGCCAGTGGAGAGTATTATTGAGAGTACGCCGAGCTTAGGACCTTAGGAG 2531
DB 3535 TTTTGGCCAGCTGGAGAGTACTACATGAAGAACGGTGTGACTTAGGGCCCATCTGTG 3594
QY 2532 GACCACCAATGGAATGCTGTAA 2554
DB 3595 CCCCCCTTATGCTCTGA 3617
```

## RESULT 3

```

US-09-323-433A-7
Sequence 7, Application US/09323433A
Patent No. 621852
GENERAL INFORMATION:
APPLICANT: Guarente, Leonard P.
APPLICANT: Austriaco Jr., Nicanor
APPLICANT: Claus, James J.
APPLICANT: Cole, Francesca
APPLICANT: Kennedy, Brian
TITLE OF INVENTION: GENES DETERMINING CELLULAR SENESENCE IN
TITLE OF INVENTION: YEAST
FILE REFERENCE: 0950.1491-003
CURRENT APPLICATION NUMBER: US/09/323.433A
CURRENT FILING DATE: 1999-06-01
PRIOR APPLICATION NUMBER: US 08/396,001
PRIOR FILING DATE: 1995-02-28
PRIOR APPLICATION NUMBER: PCT/US94/09351
PRIOR FILING DATE: 1994-08-15
PRIOR APPLICATION NUMBER: US 08/107,408
NUMBER OF SEQ ID NOS: 48
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 7
LENGTH: 5319
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
```

```

; NAME/KEY: CDS
; LOCATION: (57)...(3614)
; OTHER INFORMATION: D43951
US-09-323-433A-7

Query Match      24 3%  Score 1314.2:  DB 3:  Length 5319;
Best Local Similarity 71.4%  Pred. No. 0;
Matches 1816;  Conservative 0;  Mismatches 698;  Indels 39;  Gaps 5;

30  TGGATGCCATGGAACAAGTTGGCTGGGAATCCTTACAGTTTGAATATCTCTGGTAATCAGG  89
D5  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
1096  TGGACCCCATGGAACATGTGGCATGGAGCCTCTCAGTTTGAATATTTCAGGCAACGAGG  1155
QY  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
90  TACCAATGACCTTTCAGGAGCTATGTAGGCTTTTGAATACAAATTCACAGAGAGC  149
D5  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
1156  TACCTGTGACTACAGCAGCAAACTGTGGGACTTTTGAATACAAATTCACAGAGAGC  1215
QY  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
150  TCTTTTCAGAGGACTAATGCACTAACAGTTCACAGTTCACAGTTCACAGAGAGAA  209
D5  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
1216  TCTTCAAGAGCCTTAAGGCTTGTGTCCAGCAGTTCAGAGCTCTCAGAGAGAGAG  1275
QY  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
210  ATGCAATTAGCAGCAGCTCAGCAGCAGCAGCAGTATAGTGGTGTATCTCAGCAGGCT  269
D5  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
1276  ATGCACTGGCAGCTCTCATCAGCCGACAT.....CGATTAGATC  1312
QY  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
270  CAGCTGCATTTGTGCAATTCATACATATTAGTGTGTGTGTGTGTGTGTGTGTGTGT  329
D5  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
1318  CGCTGCGCTTGTGCGCAATTCATACATCATCAGAGCTCTCAGAGAGAGAGAGAG  1377
QY  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
330  ATACTGCAAGAGATTTGGCTCAGCAGCTACATTTAGCAGTTCAGAGTTCAGAGTTC  389
D5  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
1378  ACA---CAGCTGGATTGGTTCAGCAGCAGCAGCAGTATAGGAGCCAGCTGTGTCTCT  434
QY  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
390  AGTATTACGGCTTCCATGGGGGGTGTATCCAGCCAACTTATTCAGCAGCAA-----  443
D5  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
1435  AATTATGGAGTACTCCTCGGGAGCTACCTCTGCCAGTCTTCTCCAGCAGCAGCTCCG  1494
QY  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
444  CTGCAGCTCGCCCAATATACAGCAGCAGCTCAGCAGCAGCAGCAGCAGCAGCAGCAG  503
D5  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
1495  CTGCGCGCTCGCAGCACTAATTCAGCTAATCAACAGCAGCAGCAGCAGCAGCAGCAG  1554
QY  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
504  AGCAACAGCTTCTCGTGTGAGCAGGTTCACGCTCTTACTCCCAATCAGGCTCAGC  563
D5  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
1555  ACACAGAGTTCCTGTGAGAGAGCAGCAGCAGCTTGTGAGCAGCAGCAGCAGCAGCAG  1614
QY  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
564  AAGGCGAGCAAGCAGCAATCACTTGGCGAGCTSCAGCAGCAAAATCCAACTTGGCT  623
D5  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
1615  AGGAGCAGCAACAGGATCCCTTGTGGCAGCTGCAGCAGTGAATCTGCGCTTGCATTG  1674
QY  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
624  GTCAGGCTTCTGTACTGGCATGCCAGGCTATCAAGTACTAGCTCAGCTGCTATTATG  683
D5  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
1675  GACAAGGCTGCGCAGCAGCATGCCAGGTATTCGGGTGTGTGCTCTGTCTTACTATG  1734
QY  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
684  ATCAGACTGGTGCCTTAGTGGTGGCCCTGGAGCAGGACTGGCTTGGAGCTCCAGTTC  743
D5  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
1735  ACCAACTGGTGCCTTGTAGTGAATGAGCGCGAGAAATGGTCTGGAGCTCTCTGTTC  1794
QY  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
744  GGTAAATGGCTCCAAACACCTGTTTAAATTAAGTTCAGCAGCAGCAAA-----GCTG  794
D5  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
1795  GACTTGTACTCTCTGCCAGCTCATCATTTAGTTCTCTCAGCTGCACAGCAGCTGTGGAG  1854
QY  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
795  CAGCAGCAGCAGCTGGAGAACTGGGAAGTACGCTTACAGGAGCAGCAATGTCTGT  854
D5  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
1855  CAGCCGAGCTTCAGCAAAATGGAGCAGCTGGTGTCTGCTGGAACAAACAAATGGAC  1914
QY  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
855  TTCGGCAATTCGCACTGAGCCAGCAGCAG---CAGCAGCAAGCAGCAGCAACCAATATC  911
D5  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
1915  TTCGCCCTTTAGGAACACAGCAGCTTCAGCCCGAGCCCGCAGCAGCAGCCCAATACAC  974
QY  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
912  TGCATTTCAATTCATTTTATGGAAGCAGTTCTTTGACTAATAGCTCCCGAGAGTAGT  971
D5  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
1975  TGGCATCCAGTCTCTTCTACGGCAACAACTCTCTGACAGCAATTCACAGAGCAGCTCC  2034
```

Db 3115 ACCAGACACTCCCTATTTAGAGAGCTTACACAGACACAGAGCAGCTGTACAGGATC 3174  
QY 2:12 AGTATGGCATTATGTTATTCAGCATGTACTGGAACACAGCTGACCTGAAGACAGACGA 2:71  
Db 3175 AATCGGAAATATGTAATCCAAATGTACTGTGAGCAGCTGCTCTGAGGTAAAGCA 3234  
QY 2:72 AAATTGTTCCGAAATCAGGGGAAGGTTTATAGCCCTGAGTCAACACAAATTTGCCAGCA 2231  
Db 3235 AATTGTAGCAGAAATCCGAGGCAATGTACTGTATTGAGTCAGCACAAATTTGCCAGCA 3294  
QY 2232 ATGTAGTAGAAAGTGTGTACTCATGCTCCCTGCTGAGAGAGCTTTACTGNTTACG 2291  
Db 3295 ATGTTGTGGAAGTGTGTACTCACGCTTCACTACGAGCGCGCTGTGCTCATCGATG 3354  
QY 2292 AGGTTGCTCCAGAAATGATGGTCCCTCACAGTCCCTTACACACCATGATGAAGGACCAT 2351  
Db 3355 AGTGTGCACCATGAACGCGTCCGACAGTCCCTTATACACCATGATGAAGGACCAT 3414  
QY 2352 ATGCCAATTACGTGGTTTCAAAAGATGATTTATGCTGAACTGCTGACAGAAAGATAA 2411  
Db 3415 ATGCCAATTACGTGGTTTCAAAAGATGATTTATGCTGAACTGCTGACAGAAAGATAA 3474  
QY 2412 TCATGACACAGATTCGACCTCAGCATTTACTTCTGGCCAAATACATACGGGAGGACGA 2471  
Db 3475 TCATGACATAAGTCCGCGCCACATGCAACTCTCTGTAAGTACACCTATGCGCAAGCA 3534  
QY 2472 TACTGGCCAAAGTTGGAAAGTATTATTGGAAGATAGACCGGACCTAGGACCTATTGGAG 2531  
Db 3535 TCTGGCCAAAGTGGGAAAGTACTACTGTAAGACCGTGTGACTTAGGCCCATCTG 3594  
QY 2532 GACCACCAAAATGGAATCTGTAA 2554  
Db 3595 GCGCCGCTAATGGTATCATCTGA 36:7

## RESULT 4

US-09-702-705-1431/c  
; Sequence 1431, Application US/09702705  
; Patent No. 6504010  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Bangur, Chaitanya S.  
; APPLICANT: Jodes, Michael A.  
; APPLICANT: Fanger, Gary  
; APPLICANT: Vedvick, Tom  
; APPLICANT: Carter, Darick  
; APPLICANT: Retter, Marc  
; APPLICANT: Mannion, Jane  
; APPLICANT: Fan, Liqun  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
; FILE REFERENCE: 210121.478C14  
; CURRENT APPLICATION NUMBER: US/09/702,705  
; CURRENT FILING DATE: 2000-10-30  
; NUMBER OF SEQ ID NOS: 1833  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 1431:  
; LENGTH: 734  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-09-702-705-1431

Query Match 13.5%; Score 728.6; DB 4; Length 734;  
Best Local Similarity 99.6%; Pred. No. 1.2e-179;  
Matches 728; Conservative 2; Mismatches 1; Indels 0; Gaps 0;  
QY 3073 AAAGATTAGTTTCTTATTTGATTAATTCACAACTATCTGCAATTAACAGTAAGTAGA 3132  
Db 731 AAAGATTAGTTTCTTATTTGATTAATTCACAACTATCTGCAATTAACAGTAAGTAGG 672  
QY 3133 CAAGATAAAGTGGTTTGAGATGAAGAAGCCTAACATTTATTCAGTACGTGGTGT 3192

Db 671 CAAGATAAAGTGGTTTGAGATGAAGAAGCCTAACATTTATTCAGTACGTGGTGT 612  
QY 3193 AATCAATTTACTGCCCTAAATATGCTCTGCAATGTACAGAAATATTGTATATACTTACA 3252  
Db 612 AATCAATTTACTGCCCTAAATATGCTCTGCAATGTACAGAAATATTGTATATACTTACA 552  
QY 3253 TATGTAATTTGTTAAGAGTTAAATAACAAATCATGGTGACCTTCCAAATTAAGTSCACT 3312  
Db 551 TATGTAATTTGTTAAGAGTTAAATAACAAATCATGGTGACCTTCCAAATTAAGTSCACT 492  
QY 3313 AANTGAAGAAGTGTAGTCATTTAACTTTTCAGTTTGGTTTGCATTCAGAAAGAGTGA 3372  
Db 492 AANTGAAGAAGTGTAGTCATTTAACTTTTCAGTTTGGTTTGCATTCAGAAAGAGTGA 432  
QY 3373 AATTGTATTTGTTTGGCTTACAGAAATTCAGACATGTTTCAGGAAGTGTTCAGCTTTAT 3432  
Db 432 AATTGTATTTGTTTGGCTTACAGAAATTCAGACATGTTTCAGGAAGTGTTCAGCTTTAT 372  
QY 3433 TTGCTTTTTCATAGAGCGCAGAAAGTAGAGACACAGATAGAGATGAAGAAGGGCCACTGAA 3492  
Db 312 TTGCTTTTTCATAGAGCGCAGAAAGTAGAGACACAGATAGAGATGAAGAAGGGCCACTGAA 312  
QY 3493 AAGTGAATTTGATAGCTCAGACATTTAAGCATGATTACATATTCAGATAGCTCTTTTGGT 3552  
Db 252 AAGTGAATTTGATAGCTCAGACATTTAAGCATGATTACATATTCAGATAGCTCTTTTGGT 252  
QY 3553 TTCTATAAATATGCAATTTGCTGTGTAGTAAATAGATGTAAGTTTACACTTTGAAAGGAA 3612  
Db 251 TTCTATAAATATGCAATTTGCTGTGTAGTAAATAGATGTAAGTTTACACTTTGAAAGGAA 192  
QY 3613 ATCTGTTTCAATGTTTATATAAAGCCTTGCTTANTTAGTAGTATGCTTTCTCTGGT 3672  
Db 192 ATCTGTTTCAATGTTTATATAAAGCCTTGCTTANTTAGTAGTATGCTTTCTCTGGT 132  
QY 3673 TGTACAGGTGTACATTTGCAAACTTCATGCTGTAAATGGAATTTGTTTATCTCTTGG 3732  
Db 132 TGTACAGGTGTACATTTGCAAACTTCATGCTGTAAATGGAATTTGTTTATCTCTTGG 72  
QY 3733 GATACATTTGCATTTTATGTTGATACATTTTACCTCCCTGCTTTGACCTGGCAATATAGT 3792  
Db 72 GATACATTTGCATTTTATGTTGATACATTTTACCTCCCTGCTTTGACCTGGCAATATAGT 12  
QY 3793 GTGTATTAATG 3803  
Db 12 GTGTATTAATG 1

## RESULT 5

US-09-736-457-1432/c  
; Sequence 431, Application US/09736457  
; Patent No. 6509448  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Bangur, Chaitanya S.  
; APPLICANT: Jodes, Michael A.  
; APPLICANT: Fanger, Gary  
; APPLICANT: Vedvick, Tom  
; APPLICANT: Carter, Darick  
; APPLICANT: Retter, Marc  
; APPLICANT: Mannion, Jane  
; APPLICANT: Fan, Liqun  
; APPLICANT: Wang, Aijun  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
; FILE REFERENCE: 210121.478C15  
; CURRENT APPLICATION NUMBER: US/09/736,457  
; CURRENT FILING DATE: 2000-12-13  
; NUMBER OF SEQ ID NOS: 1964  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 1431:  
; LENGTH: 734  
; TYPE: DNA  
; ORGANISM: Homo sapien

US-09-736-457-1431

Query Match 13.5%; Score 728.6; DB 4; Length 734;

Best Local Similarity 99.8%; Pred. No. 1,12e-179;

Matches 728; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

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QY 3073 AAAGAGTTAGTGTATTTTGATTAATTCACAACTATCATGGAAATACAGAGTAAGTAGA 3132
DB 731 AAAGAGTTAGTGTATTTTGATTAATTCACAACTATCATGGAAATACAGAGTAAGTAGA 672
QY 3133 CAAGATAAAGTGGTTTGAGATGAAAGAACCTTAACATATTACAGTASATGTGGTTT 3192
DB 671 CAAGATAAAGTGGTTTGAGATGAAAGAACCTTAACATATTACAGTASATGTGGTTT 612
QY 3193 AATACAAATTAATCTCCCTTAATAATGCTCTGCAATGTACAGAAATATTTGATATATCTTACA 3252
DB 611 AATACAAATTAATCTCCCTTAATAATGCTCTGCAATGTACAGAAATATTTGATATATCTTACA 552
QY 3253 TATGTAATTTGTTAGAGTTAATATACAAATCATGTCGACATTCCTCAATTAAGTGCCT 3312
DB 551 TATGTAATTTGTTAGAGTTAATATACAAATCATGTCGACATTCCTCAATTAAGTGCCT 492
QY 3313 AAATGAAAGTAAAGTCACTTATTAACATTTTCACTTTTGGTTTGCATGAGAGAGTGA 3372
DB 491 AAATGAAAGTAAAGTCACTTATTAACATTTTCACTTTTGGTTTGCATGAGAGAGTGA 432
QY 3373 AATTTGATTTTGTGCTTATAGAAATACAGACATGTTGAGGAAGTGTGAGCTTTAT 3432
DB 431 AATTTGATTTTGTGCTTATAGAAATACAGACATGTTGAGGAAGTGTGAGCTTTAT 372
QY 3433 TTTGCTTTTTCATAGAGGCGAAGTAGGACAGATAGAGATGAAAGGGGCCACTGAA 3492
DB 371 TTTGCTTTTTCATAGAGGCGAAGTAGGACAGATAGAGATGAAAGGGGCCACTGAA 312
QY 3493 AAGTGAATTTGATAGTCTGACATTTTAAGCATGATTACATATTACAGATAGCTCTTTTGT 3552
DB 311 AAGTGAATTTGATAGTCTGACATTTTAAGCATGATTACATATTACAGATAGCTCTTTTGT 252
QY 3553 TTCTATAATATATGCAATGTGTGTGTAGTAATAGATGAAGTTTACATTTGAAAGGAA 3612
DB 251 TTCTATAATATATGCAATGTGTGTGTAGTAATAGATGAAGTTTACATTTGAAAGGAA 192
QY 3613 ATCTCTTTTCAATGTTTATATACAAAGCTTGCATATTAGTATGATGCTTCTTGT 3672
DB 191 ATCTCTTTTCAATGTTTATATACAAAGCTTGCATATTAGTATGATGCTTCTTGT 132
QY 3673 TGTACAGGTGTACATTTGTAACCTTCATGCTGTAAATGAAATTTGTTTATCTTTTGG 3732
DB 131 TGTACAGGTGTACATTTGTAACCTTCATGCTGTAAATGAAATTTGTTTATCTTTTGG 72
QY 3733 GATACATTTGCAATTTAGTGTATGTTACATTTACGTCCTGCTTGTAGCTGGGAAATATAT 3792
DB 71 GATACATTTGCAATTTAGTGTATGTTACATTTACGTCCTGCTTGTAGCTGGGAAATATAT 12
QY 3793 GTTGTATAATG 3803
DB 11 GTTGTATAATG 1
```

RESULT 6

US-09-356-952-12/c

Sequence 12, Application US/09356952

Patent No. 6117663

GENERAL INFORMATION:

APPLICANT: Bozick-Stodin, Ann

APPLICANT: Matgarit, S. M.

APPLICANT: Bor-Sogai, Dafna

APPLICANT: Cole, Philip

APPLICANT: Kuriyan, John

TITLE OF INVENTION: A CRYSTAL OF A RAS-SOS COMPLEX AND METHODS OF USE

FILE REFERENCE: 600-1-228N

CURRENT APPLICATION NUMBER: US/09/356,952

CURRENT FILING DATE: 1999-07-19

EARLIER APPLICATION NUMBER: 60/093,631

EARLIER FILING DATE: 1998-07-21

NUMBER OF SEQ ID NOS: 14

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 12

LENGTH: 43676

TYPE: DNA

ORGANISM: Saccharomyces cerevisiae

US-09-356-952-12

Query Match 3.8%; Score 206.6; DB 3; Length 43676;

Best Local Similarity 53.3%; Pred. No. 7.4e-43;

Matches 510; Conservative 0; Mismatches 429; Indels 36; Gaps 3;

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QY 1516 CCCAAACCTTCAGCTTAGAGACTTGTATGGACATATAGTTAGTCTTCTCAAGACACAGCA 1575
DB 11790 CTCGACATGTCACTAAAGAGACATCTTGGCCATCTCTAGAGTTTGCAGAAATCAACA 11731
QY 1576 TGGTTCTAGATCATACAGCAAAACCTAGAGAGAGCTACTCCAGCTGAGCGACAGATGGT 1635
DB 11730 TGGTTCAAGGTTTCATTCAGCCGAGTGGCCACCTCCAGCCCTCAGAAAAGAGAGTCAT 11671
QY 1636 ATTTAAATGAATCTCGCAGCAGCCTATCAATTAATGACTGATGTTTGTGCAACTATGT 1695
DB 11670 ATTCATGAATTTGCGATGACGCTTGGCTTTGACAGATGATTTTGGTAATTACGT 11611
QY 1696 TATACAGAAAGTTTGTGAGTTTGGAGTCTGSAATCAAAAATAGCCCTGGTACTCGTAT 1755
DB 11610 CATTCAGAAAGTTTGTGAATTTGGTAGCAAAATTCAAAAAATCTTTTGGTTGATCAAT 11551
QY 1756 TGTGGTCACTGTTCTACCTTAGCTTCAGATGATGCTGCGCGCTTATTCAGAAAGC 1815
DB 11550 TAAAGGTAACTGAAACAGCTTATCTCAAAATGTACGATGTCGTGTAATTCAAAAGGC 11491
QY 1816 ATTAGATCTATTTCTCTGACAGCAGAGTGAATGGTAAAGAGGCTGGATGGTCACTG 1875
DB 11490 GTTAGAATATATGTTCCATCAAGAAATTSAGTTAGTCTGGAAATATCTGACTCCGT 11431
QY 1876 GCTCAAAATSTGTGAAGATCAGAAATGGAACCATGTTGTACAAAATATGTATCGAATGT 1935
DB 11430 TTTCAAATGATCAAGATCAGACGCTAATCACTAATTCAAAAGGCCATCGAAACAT 11371
QY 1936 TGAGCCACAGTCACTACAGTTTCATGCTTTCAGGCAAGATATTTGTGCTTTC 1995
DB 11370 TCCATACAAAATTTACCTTTTATCTTAAGTTCTTTAACTGCGCCACATTTTACCAT 11311
QY 1996 AACTCATCTTTATGCTCGACAGTAAATCAGCGCATCTAGAGCATTCACCTGCAGAAACA 2055
DB 11310 TACCCACTCTTACGCTGTAGGTCATTCGAAGATGTTAGAAATTTGTTTGCAGCGAAGA 11251
QY 2056 GACCTTACCTATCTTTAGAGAACTCCACCAACATACAGAGAGCTGGTACAGATCACTA 2115
DB 11250 TCAGAAAGAGCATTTTAAACGAAATGAAAGATTCATACCATATCTAATTCAGAACCAATA 11191
QY 2116 TGGCAATATCTTATTCAGATGACTGCGACACGCTCGACC-----TGAAGACAGAG 2169
DB 11190 TGGTAACCATGTCATTCATATATGTTTTCGCAACAGATCAGTTCCCAATAAGGAATGGT 11131
QY 2170 CAAAATCTTTCCGAAATCAGCGGA-----AAGGTTTGTAGCCCTGAGTCAACA 2217
DB 11130 CGATATCAACAGGMAATCATAGAAACTGTGCGCAATATGTTTTCGAATACTCTAAACA 11071
QY 2218 CAAATTTCCAGCAATGTAGTAGAAAGTGTGTACTCATGCTCCCTCCCTGCTGAGAGAGC 2277
DB 11070 TAAATTTCCCTCCACAGGTGGTCGAAAGATCTATCTTTATGGCTCTAAATAATCAGAGGA 11011
QY 2278 TTTACTGATTGACAGAGTTTCTGCCAGATGATGGTCTC-----A 2319
DB 11010 TTTAATAATTTCTAAGATTTTACCAGAGACAAAAATCATCTTTGAATCTTGAAGAGCA 10951
QY 2320 CAGTGCCTTATACACCATGATGAGGACCACTATGCCAATACGTGTTTCAAAAGATGAT 2379
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10950 TTCTCAATGATTTTATATGATCAAGGATCAATTTCCCAACTATGTGATTCACAAAATTAGT 10891  
2380 TGATATGGGTGAACCTGCTCAGAGAAAGATATATCATGCACAGATTCACACTTAC 2439  
10890 TAATGTCTCTAGAGGGTGAGGGTAAAGAAATGATGTGTCATTCGCATTAGAGCATATTGGA 10891  
2440 TACTTTGGCCAAATACACATACCGGAAGCATATAC 2474  
10830 TAACTTAAACAAATCTTAACCTCCCTAGGAATAGAC 10796

## RESULT 7

JS-08-861-464-5  
; Sequence 5, Application US/08861464  
; Patent No. 5874213  
; GENERAL INFORMATION:  
; APPLICANT: Guarente, Leonard P.  
; APPLICANT: Austriaco Jr., Nicanor  
; APPLICANT: Kennedy, Brian  
; TITLE OF INVENTION: Genes Determining Cellular Senescence  
; TITLE OF INVENTION: in Yeast  
; NUMBER OF SEQUENCES: 16  
; CORRESPONDENCE ADDRESS: 16  
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.  
; STREET: Two Militia Drive  
; CITY: Lexington  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02173  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: IBM PC compatible  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/861,464  
; FILING DATE: 22-MAY-1997  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/396,001  
; FILING DATE: 28-FEB-1995  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US94/09351  
; FILING DATE: 15-AUG-1994  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 06/107,408  
; FILING DATE: 16-AUG-1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Granahan, Patricia  
; REGISTRATION NUMBER: 32,227  
; REFERENCE/DOCKET NUMBER: MIT-6408A22  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 781-861-6240  
; TELEFAX: 781-861-9540  
; INFORMATION FOR SEQ ID NO: 5:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 4000 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: double  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 717..3380  
; FEATURE:  
; NAME/KEY: mat\_peptide  
; LOCATION: 717..3380

US-08-861-464-5

Query Match 2.0%; Score 106; DB 2; Length 4000;  
Best Local Similarity 49.8%; Pred. No. 2.8e-17;  
Matches 302; Conservative 0; Mismatches 305; Indels 3; Gaps 1;

1536 ACTGATGGACATAGTTGAGTTTCTTCAAGACGAGGATGTTCTAGATTCTATCAGC 1595  
2434 AATATATCGGAAGATTCATCTCATTTGTGTAAGACCAACATGTTGTCTGTTTCTGAAA 2463  
1596 AAAAACTAGAGAGAGCTACTCCAGCTCAGCGACAGATGCTATTATTAATGAATTTCTCAAG 1655  
2464 AGCAGTTGAGATTTCTCGGAGTAAGCGCGGACCGCAATTTTGAAGAACTAAGGATT 2523  
1656 CAGCTATCAATTAAGACTGATTTTGGCAACTATGTTATACAGAGTTTCTTGTAGT 1715  
2524 ATAGGTTGATTCAGACTGATTCATTCGGTATTATTTGATCCAGAGCTATTGGAAG 2583  
1716 TTGGAGTCTGGATCAAAAATATAGCCCTGGCTACTGCTATGCTATGCTGTCATCCCT 1775  
2584 AGTTTACACAGAACAAAGAAATGCTACTCACAATAATATCTCCCTCATTTGTGAAA 2643  
1776 TAGCTTGCAGATGATGGCTGCGCGGTTATTTCGAAAGCATTTAGATCTATTCTCTG 1835  
2644 TCTCTTAAACCCCTCAAGTACTAGGSCATTAACAAATCATTTGATGCAAAACAG 2703  
1836 ACAGAGAGTGAATGCTTAAAGAGAGCTGGATG---TCATGTGCTCAAAATGTGTAAG 1892  
2704 ATGAGAGAGACAGATTTGTTGATTCCTTAGCCCTTATCTGTCACCTGAGTAGG 2763  
1893 ATCAGATGGAAACCATGTTGTACAAAATGATCGAATGTCTCAGCCACAGTCACTAC 1952  
2764 ATTTAAATGGTAAATCATGTTATTCAAAAATGTTTCAAAAGTTTGAAGCTTGAAGCTTCC 2823  
1953 AGTTCATCATGATGCTTTTCAAGGAGCAAGTATTGTGCTTTCACTCATCTCTATGGCT 2012  
2824 AGTTATCTTTTGCGCAATCTCTGATAGCTGTTATGATGCTACTATAGACACGGGT 2893  
2015 GCAGAGTAATTCAGCGCACTAGAGCATTCAGAGATTCAGTGCAGAACAGACCTTACCTATCTTAG 2072  
2894 GTTCCGTTTTCGAACGTTCTTAGATTCAGATACAGAACATGACAGAACATGACAACTCTGTG 2943  
2073 AAGACTCCACCAACATACAGACAGCTTGGTACAGATCAGATCGAGTATGCGCAATATCTATTC 2132  
2944 ATAAAGTGTAGAGCTTCTTATTAATAATTAAGTTGGATCCATTTGCCAACTATGCTGTGC 3003  
2133 AGCATCTACT 2142  
3004 AATATAAT 3013

## RESULT 8

US-08-396-201-5  
; Sequence 5, Application: US/08396201  
; Patent No. 59-9618  
; GENERAL INFORMATION:  
; APPLICANT: Guarente, Leonard P.  
; APPLICANT: Austriaco Jr., Nicanor  
; APPLICANT: Claus, James  
; APPLICANT: Cole, Francesca  
; APPLICANT: Kennedy, Brian  
; TITLE OF INVENTION: Genes Determining Cellular Senescence in  
; TITLE OF INVENTION: Yeast  
; NUMBER OF SEQUENCES: 16  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.  
; STREET: Two Militia Drive  
; CITY: Lexington  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02173  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: IBM PC compatible  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/396,001  
; FILING DATE: 28-FEB-1995

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/ CLASSIFICATION: 435
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Granahan, Patricia
/ REGISTRATION NUMBER: 32,227
/ REFERENCE/DOCKET NUMBER: MIT-6438A2
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 617-861-6240
/ TELEFAX: 617-861-9543
/ INFORMATION FOR SEQ ID NO: 5:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 4000 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: double
/ TOPOLOGY: linear
/ MOLECULE TYPE: DNA (genomic)
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: 717..3380
/ SOFTWARE: PASTSEQ for Windows Version 3.0
US-08-396-001-5
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Query Watch          2.0%; Score 106; DB 2; Length 4000;
Best Local Similarity 49.5%; Pred. No. 2.8e-17;
Matches 302; Conservative 0; Mismatches 305; Indels 3; Gaps 1;

QY 1536 ACTTGATTGGACATATAGTTCAGTTCCTCAAGACGAGCATGTTCTAGATTCATACAC 1595
DB 2404 AATATATCGAAGTATTCCTCGGAGTAAGCGCGGACCGAATTTTGAAGAACTAAGGATT 2463

QY 1596 AAAAACTAGAGAGAGCTACTCCAGCTGAGCGACAGATGGTATTTAATGAAATTCSCAAG 1655
DB 2464 AGCAGTTGGATATTCCTCGGAGTAAGCGCGGACCGAATTTTGAAGAACTAAGGATT 2523

QY 1656 CAGCCTATCAATTAATGACTGATGTTTTGGCAACTATGTTATACAGAAAGTTTTTGGAGT 1715
DB 2524 AATATATCGAAGTATTCCTCGGAGTAAGCGCGGACCGAATTTTGAAGAACTAAGGATT 2583

QY 1716 TTGGGAGTCTGGATCGAAATATAGCCCTGGGTATCGGTATCGGTTGGTATCGGTTACCCCT 1775
DB 2584 AGTTTACCACAGACAGAAAGATCGTACTACAAAAAATATCTTCCCTCATTTTGTGCAAA 2643

QY 1836 ACCAGCAGAGTGAAGTGGTAAAGAGAGCTGGATGG---TCATGTGCTCAAAATGTGTGAAAG 1892
DB 2704 ATGAAGAGACAGAGATGTTGTTGATCTTTACGCCCTTTATCTGCGCCCTTACTGTCGAGTTGAGTAAG 2763

QY 1893 ATCAGAAATGAAACCAATGTTGTACAAAATGTATCGAAATGTGTTACGCCACAGCTCACTAC 1952
DB 2764 ATTTAATGGTATCATGTTATTCAAAATGTTTGAAGGTTGAAGCTGMAAACTTCC 2823

QY 1953 AGTTTCATCTTGATGCTTTCAGGGACAGATATTTGGGTTTCACTCACTCACTTATGGCT 2012
DB 2824 AGTTTATCTTTGACGCAATCTCTGATAGCTGTTATGATTTATGCTACTCATAGACCGGTT 2883

QY 2013 GCAGAGTAAATTCAGCGCATCTTAGAGCTTGCATCGAGAGAGAGCTTACCTATCTTAG 2072
DB 2884 GTTGGGTTTTCGACAGCGTTTCTAGATCATGGAGCTACAGAGACAAATGTGACAAATCTGTGTG 2943

QY 2073 AAGAACTCCACCAACATACAGAGAGCTTGGTACAGGATCAGTATGCAATATATGTTATTC 2132
DB 2944 ATAGTTGCTAGCGCTTGTGTGATAAATTAATTTGGATCCATTTGGCAACTATGTGGTGC 3003

QY 2133 AGCATGTTACT 2142
DB 3004 AATATATAAT 3013
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RESULT 9
US-09-323-433A-5
; Sequence 5, Application US/09323433A
; Patent No. 6218512
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/ GENERAL INFORMATION:
/ APPLICANT: Guarente, Leonard P.
/ APPLICANT: Austraco, Inc., Nicholas
/ APPLICANT: Claus, James J.
/ APPLICANT: Cole, Francesca
/ APPLICANT: Kennedy, Brian
/ TITLE OF INVENTION: GENES DETERMINING CELLULAR SENESENCE IN YEAST
/ FILE REFERENCE: 0050.1491-003
/ CURRENT APPLICATION NUMBER: US/09/323.433A
/ CURRENT FILING DATE: 1999-06-01
/ PRIOR APPLICATION NUMBER: US 08/396,001
/ PRIOR FILING DATE: 1995-02-28
/ PRIOR APPLICATION NUMBER: PCT/US94/09351
/ PRIOR FILING DATE: 1994-09-15
/ PRIOR APPLICATION NUMBER: US 08/107,408
/ PRIOR FILING DATE: 1993-09-16
/ NUMBER OF SEQ ID NOS: 48
/ SOFTWARE: PASTSEQ for Windows Version 3.0
/ SEQ ID NO 5
/ LENGTH: 4000
/ TYPE: DNA
/ ORGANISM: Saccharomyces cerevisiae
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (717)....(3380)
/ OTHER INFORMATION: YG023
US-09-323-433A-5
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Query Watch          2.0%; Score 106; DB 3; Length 4000;
Best Local Similarity 49.5%; Pred. No. 2.8e-17;
Matches 302; Conservative 0; Mismatches 305; Indels 3; Gaps 1;

QY 1536 ACTTGATTGGACATATAGTTCAGTTCCTCAAGACGAGCATGTTCTAGATTCATACAGC 1595
DB 2404 AATATATCGAAGTATTCCTCGGAGTAAGCGCGGACCGAATTTTGAAGAACTAAGGATT 2463

QY 1596 AAAAACTAGAGAGAGCTACTCCAGCTGAGCGACAGATGGTATTTAATGAAATTCGCGAG 1655
DB 2464 AGCAGTTGGATATTCCTCGGAGTAAGCGCGGACCGAATTTTGAAGAACTAAGGATT 2523

QY 1656 CAGCCTATCAATTAATGACTGATGTTTTGGCAACTATGTTATACAGAAAGTTTTTGGAGT 1715
DB 2524 AATATATCGAAGTATTCCTCGGAGTAAGCGCGGACCGAATTTTGAAGAACTAAGGATT 2583

QY 1716 TTGGGAGTCTGGATCGAAATATAGCCCTGGGTATCGGTATCGGTTGGTATCGGTTACCCCT 1775
DB 2584 AGTTTACCACAGACAGAAAGATCGTACTACAAAAAATATCTTCCCTCATTTTGTGCAAA 2643

QY 1776 TAGCCTTCAGATGTTATGGCTGCGCGGTTATTCAGAGAGCATAGAAATCTATTTCTCTG 1835
DB 2644 TTTCTTAAACCTCATGTTACTAGGCGATTAACAAAATCTCATTTCCCTCATTTTGTGCAAA 2703

QY 1836 ACCAGCAGAGTGAAGTGGTAAAGAGAGCTGGATGG---TCATGTGCTCAAAATGTGTGAAAG 1892
DB 2704 ATGAAGAGACAGAGATGTTGTTGATCTTTACGCCCTTTATCTGCGCCCTTACTGTCGAGTTGAGTAAG 2763

QY 1893 ATCAGAAATGAAACCAATGTTGTACAAAATGTATCGAAATGTGTTACGCCACAGCTCACTAC 1952
DB 2764 ATTTAATGGTATCATGTTATTCAAAATGTTTGAAGGTTGAAGCTGMAAACTTCC 2823

QY 1953 AGTTTCATCTTGATGCTTTCAGGGACAGATATTTGGGTTTCACTCACTCACTTATGGCT 2012
DB 2824 AGTTTATCTTTGACGCAATCTCTGATAGCTGTTATGATTTATGCTACTCATAGACCGGTT 2883

QY 2013 GCAGAGTAAATTCAGCGCATCTTAGAGCTTGCATCGAGAGAGAGCTTACCTATCTTAG 2072
DB 2884 GTTGGGTTTTCGACAGCGTTTCTAGATCATGGAGCTACAGAGACAAATGTGACAAATCTGTGTG 2943

QY 2073 AAGAACTCCACCAACATACAGAGAGCTTGGTACAGGATCAGTATGCAATATATGTTATTC 2132
DB 2944 ATAGTTGCTAGCGCTTGTGTGATAAATTAATTTGGATCCATTTGGCAACTATGTGGTGC 3003
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QY 2133 AGCATGTACT 2142  
| | | | |  
Db 3004 AATAATAAT 3013

## RESULT 10

US-09-313-294A-962  
; Sequence 962, Application US/09313294A  
; Patent No. 6476212  
; GENERAL INFORMATION:  
; APPLICANT: Lalgudi, Raghunath V.  
; APPLICANT: Ito, Laura F.  
; APPLICANT: Sherman, Bradley K.  
; TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES DERIVED FROM CORN EAR  
; FILE REFERENCE: PL-0017 US  
; CURRENT APPLICATION NUMBER: US/09/313,294A  
; CURRENT FILING DATE: 1999-05-14  
; NUMBER OF SEQ ID NOS: 7600  
; SOFTWARE: PERL Program  
; SEQ ID NO 962  
; LENGTH: 292  
; TYPE: DNA  
; CAGATISM: Zea mays  
; FEATURES:  
; NAME/KEY: misc.feature  
; OTHER INFORMATION: Incyte ID No. 6476212 700550145H;  
US-09-313-294A-962

Query Match 1.2%; Score 67.4; DB 4; Length 292;  
Best Local Similarity 55.3%; Pred. No. 7.1e-38;  
Matches 152; Conservative 0; Mismatches 121; Indels 2; Gaps 1;  
QY 2217 ACAAAATTCACGCAATGTAGTAAAGTGTACTCATGCTCCGCTGCTGAGAGG 2276  
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Db 1 AAAAATTCGCTCAATGATCATGAGATGCTTAGTCTTGTGAATCTGTAGAACGTC 60  
| | | | |  
QY 2277 CTCTACTGATTCACGAGGTTTCCTGCGCAATGATGTCCTCACAGTGCCTTATACACA 2336  
| | | | |  
Db 61 AGGTCTGATTTGTCGAGATGCTTGAATCCACTAGCGAAAGCAACCTCTGAGGTA-AA 118  
| | | | |  
QY 2337 TCATGAAGACCATGATGCCAATAGCTGGTTCACAAAGATGATGATGGCTGAACCTG 2396  
| | | | |  
Db 119 TGATGAACACCATGTTGGAATCTATGTCGCAAGGCTGTAGAACTTGTGCGATC 178  
| | | | |  
QY 2397 CTCAGAGAAAGATAATCATGCAAGATTCGACCTCACATTACTACTTTGCCAAATACA 2456  
| | | | |  
Db 179 AGCAGAGAGAGATGATCCTTAACAAGGATAAAGACACACCTGAACACATCAAGAGATACA 238  
| | | | |  
QY 2457 CATAGGGGAGCATATATCTGCGCAAGTTGGAAG 2491  
| | | | |  
Db 239 CATATGGGAAGCACATAGTAGCACCGCTAGAGAAG 273  
| | | | |

## RESULT 11

US-08-232-463-14  
; Sequence 14, Application US/08232463  
; Patent No. 5670367  
; GENERAL INFORMATION:  
; APPLICANT: DORNER, F.  
; APPLICANT: SCHEIFLINGER, F.  
; APPLICANT: FALKNER, F. G.  
; TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS  
; NUMBER OF SEQUENCES: 52  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Foley & Lardner  
; STREET: 1800 Diagonal Road, Suite 500  
; CITY: Alexandria  
; STATE: VA  
; COUNTRY: USA  
; ZIP: 22313-0299  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/232,463  
FILING DATE:  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/07/935,313  
FILING DATE:  
APPLICATION NUMBER: EP 91 114 300.6  
FILING DATE: 26-AUG-1991  
ATTORNEY/AGENT INFORMATION:  
NAME: BENT, Stephen A.  
REGISTRATION NUMBER: 29,768  
REFERENCE/DOCKET NUMBER: 30472/114 IMMU  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 17031836-9300  
TELEFAX: 17031683-4109  
TELEX: 999149  
INFORMATION FOR SEQ ID NO: 14:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 7218 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: Single  
TOPOLOGY: Linear  
IMMEDIATE SOURCE:  
CLONE: pTZ19pt-F.s  
US-08-232-463-14

Query Match 1.2%; Score 67.4; DB 1; Length 7218;  
Best Local Similarity 8.5%; Pred. No. 4.3e-07;  
Matches 38; Conservative 230; Mismatches 191; Indels 0; Gaps 0;  
QY 4572 TGGCGATGCCAGGCATACCTTTTTCATGTTTGGTGTGAGTTACTTTCTAACCCTA 4631  
| | | | |  
Db 1560 TTCCGATTTTCTGATTTTCTGATTTTCTGATTTTCTGATTTTCTGATTTTCTGAT 1119  
| | | | |  
QY 4582 ACATTCCTTGTGAGACCATTAATACCAACACATTTGTCACCGTCTCTTCATAGTCACT 4691  
| | | | |  
Db 1120 YYYVYY 1179  
| | | | |  
QY 4692 CTGCGTCATAGCATGTCGCGAGTCATCGCAGCACGCGCTGTGTCTTCTTCTTCTTCTA 4751  
| | | | |  
Db 1180 YYYVYY 1239  
| | | | |  
QY 4752 AAACCCACACAAACCCGCTGCTCCTACCTTTTCTACCTTACCAACCTCAGAGTATTCGC 4811  
| | | | |  
Db 1240 YYYVYY 1299  
| | | | |  
QY 4812 CCGCATTCGACACTTTGTTCTCAGTATCAGCCCATGTTTCAGATCAAAACGTCGATGT 4871  
| | | | |  
Db 1300 YYYVYY 1359  
| | | | |  
QY 4872 TGGAGATTGGTAATGCTTCTGCTGTCTTGTAGAGTTGAATTCCTGCTTCTCTCATCC 4931  
| | | | |  
Db 1360 YYYVYY 1419  
| | | | |  
QY 4932 TTGCGCTCTGTGCGACAGCATATCTCTSCATTTTAGAAATGACAAGTAGAGATA 4991  
| | | | |  
Db 1420 YYYVYYYYYYYYYYYYGGTACCAATTCCTTATCTCTTAACTACTTCGATAGATAGATA 1479  
| | | | |  
QY 4992 CTACATTGAGAAACTAAACCTCTTCTTTG 5020  
| | | | |  
Db 1480 TTACAGTGAATGCTTACATGCGCTTTTGT 1508  
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## RESULT 12

US-08-487-826B-13/C  
; Sequence 13, Application US/08487826B  
; Patent No. 5993627  
; GENERAL INFORMATION:  
; APPLICANT: Sim, Kim L.  
; APPLICANT: Chitnis, Chetan



1308 GTGAGAGCTGATGATATGACAAATTAAGCAATTTTCTTGGACCTTATTTTGGATCCG 1367  
1682 TTTGGCAACTATGTTATACAGAAAGTTTTTTTGAGTTTGGAGTCTGGATCAAAATTAAGCC 1741  
1368 TCGGGTAATATTGGTTCCAAAACACTATGCGATTATTTAACTCCCGAGCAAAAGACATTA 1427  
1742 CTGGCTACTGGTATTCGTGGTCATGTTCTACCCCTTAGCCCTTSGAGATGTATGCTGCCG 1801  
1428 TTAATACAAACAATATATCCAAATTTTTTCCAAATATCAATCAATCAGTACGGAATCGT 1487  
1802 GTTATTACAGAAACATTAGAAATCTATTCTCTGACGACGAGAGTGAAATGGTAAAGGAG 1861  
1488 TCTTTACAGAAATTTATAGACACTGTGATAACGAAGTTCAATTCATCTCATATTATAG 1547  
1862 C-----TGGATGTCATGTCCTCTCAAAATGTTGAAAGATCAGAAAT 1900  
1548 GGATTTTCCCAAGAAATTTACTTCGATTGAGCAAGTGGTTACTTTGATAAAGCATCTTAAT 1607  
1901 GGAAACCATGTTGTACAAAATGATTCGAATGTGTTGAGCCACAGTCACAGTTTCATC 1960  
1608 GGTAAACCATGTAATCAAAAGTGTATTTTCAAAATCTCGCCATCAAAATTTGGTTTCATC 1667  
1961 ATTGATGCTTTCAAGGACAA-----GTATTGTGCTTTCAACTCATCTCTATGCTCGC 2014  
1668 ATAGATGCTATTCTAGAACAAATATATATCATTTACCATTTCTACCATTAACAGTGGTGT 1727  
2015 AGAGTAATTCAGCGCATCTTAGACGATTCACCTTGCAGAACAGACCTTACCTATCTTAGAA 2074  
1728 TGGTACTACAAAATTTACTAAGCGTTTGACTCTACACAAATTTTCAAAATTTCTGTG 1787  
2075 GAATCTCCACACATACAGAGCAGTTGGTACAGATCGATGATGGCAATATGTTATTCAG 2134  
1788 AAAATTTGCGAGTTCTCTCGATTAAATCAACGATCAGTTGGTAAATATATCATCCAA 1847  
2135 CATGTACTGGA 2145  
1848 TTTCTGTAGA 1858

RESULT 14  
US-08-396-001-3  
Sequence 3, Application US/08396001  
Patent No. 5913618  
GENERAL INFORMATION:  
APPLICANT: Guarente, Leonard P.  
APPLICANT: Austriaco Jr., Nicanor  
APPLICANT: Claus, James  
APPLICANT: Cole, Francesca  
APPLICANT: Kennedy, Brian  
TITLE OF INVENTION: Genes Determining Cellular Senescence in  
NUMBER OF INVENTION: 15  
NUMBER OF SEQUENCES: 16  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.  
STREET: Two Militia Drive  
CITY: Lexington  
STATE: MA  
COUNTRY: USA  
ZIP: 02173  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/396,001  
FILING DATE: 28-FEB-1995  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Granahan, Patricia  
REGISTRATION NUMBER: 32,227  
REFERENCE/DOCKET NUMBER: MIT-6408A2  
TELECOMMUNICATION INFORMATION:

TELEPHONE: 617-861-6240  
TELEFAX: 617-861-9540  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 3455 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 663..3164  
US-08-396-001-3  
Query Match 1.0% Score 55.8; DB 2; Length 3455;  
Best Local Similarity 47.6%; Pred. No. 0.0003;  
Matches 291; Conservative 0; Mismatches 287; Indels 33; Gaps 3;  
QY 1568 GACGAGCATGTTCTAGATTCATACAGCAAAATACAGAGAGCTACTCCAGC-----T 1622  
DB 1248 GACGAGTTTCCCTCCCTCTTTCTTCAAAAAAATTAAGAAACCCCCAGTGAATCCAAATG 1307  
QY 1622 GAGGACAGATGGATTTAAAGAAATCTGCAAGCAGCCTATCAATTAATGACATGATGT 1681  
DB 1308 CTGAGAGACTTGTGTATGAGCAAAATTAAGCCATTTTCTTGGACCTTATTTTGGATCCG 1367  
QY 1682 TTTGGCAACTATGTTATACAGAAAGTTTTTTTGAGTTTGGAGTCTGGATCAAAATTAAGCC 1741  
DB 1368 TCGGGTAATATTGGTTCCAAAACACTATGCGATTATTTAACTCCCGAGCAAAAGACATTA 1427  
QY 1742 CTGGCTACTGGTATTCGTGGTCTATGTTCTACCCCTTAGCCCTTSGAGATGTATGCTGCCG 1801  
DB 1428 TTAATACAAACAATATATCCAAATGTTTTCAAAATATCAATCAATCAGTACGGAATCGT 1487  
QY 1802 GTTATTACAGAAACATTAGAAATCTATTCTCTGACGACGAGAGTGAAATGGTAAAGGAG 1861  
DB 1488 TCTTTACAGAAATTTATAGACACTGTGATAACGAAGTTCAATTCATCTCATATTATAG 1547  
QY 1862 C-----TGGATGTCATGTCCTCTCAAAATGTTGAAAGATCAGAAAT 1900  
DB 1548 GGATTTTCCCAAGAAATTTACTTCGATTGAGCAAGTGGTTACTTTGATAAAGCATCTTAAT 1607  
QY 1901 GGAAACCATGTTGTACAAAATGATTCGAATGTGTTGAGCCACAGTCACAGTTTCATC 1960  
DB 1608 GGTAAACCATGTAATCAAAAGTGTATTTTCAAAATCTCGCCATCAAAATTTGGTTTCATC 1667  
QY 1961 ATTGATGCTTTCAAGGACAA-----GTATTGTGCTTTCAACTCATCTCTATGCTCGC 2014  
DB 1668 ATAGATGCTATTCTAGAACAAATATATCATTTACCATTTCTACCATTAACAGTGGTGT 1727  
QY 2015 AGAGTAATTCAGCGCATCTTAGACGATTCACCTTGCAGAACAGACCTTACCTATCTTAGAA 2074  
DB 1728 TGGTACTACAAAATTTACTAAGCGTTTGACTCTACACAAATTTTCAAAATTTCTGTG 1787  
QY 2075 GAATCTCCACACATACAGAGCAGTTGGTACAGATCGATGATGGCAATATGTTATTCAG 2134  
DB 1788 AAAATTTGCGAGTTCTCTCGATTAAATCAACGATCAGTTGGTAAATATATCATCCAA 1847  
QY 2135 CATGTACTGGA 2145  
DB 1848 TTTCTGTAGA 1858

RESULT 15  
US-09-323-433A-3  
Sequence 3, Application US/09323433A  
Patent No. 6216512  
GENERAL INFORMATION:  
APPLICANT: Guarente, Leonard P.  
APPLICANT: Austriaco Jr., Nicanor  
APPLICANT: Claus, James S.  
APPLICANT: Cole, Francesca  
APPLICANT: Kennedy, Brian

Job time : 283 secs

; TITLE OF INVENTION: GENES DETERMINING CELLULAR SENESECE IN

; TITLE OF INVENTION: YEAST

; FILE REFERENCE: 2050.1491-003

; CURRENT APPLICATION NUMBER: US/09/323,433A

; PRIOR FILING DATE: 1999-06-01

; PRIOR APPLICATION NUMBER: US 08/396,001

; PRIOR FILING DATE: 1995-02-28

; PRIOR APPLICATION NUMBER: PCT/US94/09351

; PRIOR FILING DATE: 1994-08-15

; PRIOR APPLICATION NUMBER: US 08/107,408

; PRIOR FILING DATE: 1993-08-16

; NUMBER OF SEQ ID NOS: 48

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 3

; LENGTH: 3455

; TYPE: DNA

; ORGANISM: Saccharomyces cerevisiae

; FEATURE:

; NAME/KEY: CDS

; LOCATION: (663)...(3164);

; OTHER INFORMATION: JTH4

; US-09-323-433A-3

Query Match 1.0; Score 55.9; DB 3; Length 3455;

Best Local Similarity 47.68; Pred. No. 3.0003;

Matches 291; Conservative 0; Mismatches 287; Indels 33; Gaps 3;

QY 1568 GACGAGATGGTCTCTAGATCTACAGCAAAACTAGAGAGAGCTACTCCAGC-----T 1621

DB 1248 GACCAGTTGGTGGCGTTTCTTCAAAAAAATAGAAAACCCCGAGTGAATCCAAATCG 1307

QY 1622 GACGGACAGATGGTATTTATGAAATCTGACAGCAGCCTATCAATTAATGACTGATGTT 1681

DB 1338 GTGAGAGACTTGATGATGAACAAATTAACCCATTTTCTTGACCTTATTTTGGATCCG 1367

QY 1682 TTGGCAACTATGTATACAGAGATTTTGGAGTCTGGATCAAAANTTAGCC 1741

DB 1368 TTGGGTAACTATTGGTTCAAAACATGCGATATTACTSCGAGSCAAAGACATTN 1427

QY 1742 CTGGCTACTCGTATGGTGTGATGTTCTACCTTACCTTTGAGATGATGCTGCGC 1801

DB 1428 TTAATACAAACAATATATCCAAATGTTTCCAAATATCAATCAATCAGTACGGAACTCGT 1467

QY 1802 GTTATTCAGAAAGCNTAGAAATCTATTCTTTCGACGAGCAGAGTGAATGGTAAGGAG 1861

DB 1488 TCCTTACAGAAATATPAGACACGTGGATACGAAATTCAAATCGATCTCATTTATTAAG 1547

QY 1862 C-----TGGATGGTCAATGTGCTCAAAATGTGTGAAGATCAGAAAT 1900

DB 1548 GGAATTTCCCAAGNATTACTTCGATTGACCAAGTGGTACTTTGATAACGATCTTAAT 1607

QY 1901 GGAACATGTTGTACAAAAATGTATGGAATGTGTTGAGCCACAGTCACTACAGTTCAATC 1960

DB 1608 GGTAAACATGTGATTCAAAAGTGTATTTCAAAATCTCGGCATCAAAATTTGGTTTCATC 1667

QY 1961 ATTGATGCTTTCAGGGAGAA-----GTATTGTGCTTTTCACTATGCTATGCTGCTGC 2014

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QY 2015 AGAGTAATTCAGGCGATCTCTAGAGCATTTGACATGCGAGACAGACCTTACCTATCTTAGAA 2074

DB 1728 TGGTACTACAAAANATTACTTAAGCTTTGTACTCTACACAAATTTTCAMAAATTTCTGTG 1787

QY 2075 GAATCCCAACAATACAGACAGAGTGGTACAGATCAGTATGGCAATATGTTATTTCAG 2134

DB 1788 AAAATGTCAGATTCCTTCTCGGATTAAATCAACGATCAGTTCGGTAATATATATCATCCAA 1847

QY 2135 CATGACTCGA 2145

DB 1848 TTTCTGTAGA 1858

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model:

Run on: October 16, 2003, 10:08:31 ; Search time 1279 Seconds

(without alignments)  
1:085.586 Million coli updates/sec

Title: US-09-129-603-1

Perfect score: 5399

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Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1750203 seqs, 1313063994 residues

Total number of hits satisfying chosen parameters: 3502406

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	4915	91.0	5162	12	US-10-205-219-176
2	4142	24.3	5359	9	US-09-826-752-7
3	4142	24.3	5359	14	US-10-197-666A-139
4	4298.2	24.0	4021	14	US-10-197-666A-137
5	728.6	13.5	734	10	US-09-736-457-143
6	728.6	13.5	734	10	US-09-902-941-143
7	728.6	13.5	734	10	US-09-849-626-143
8	728.6	13.5	734	12	US-10-113-872-143
9	490	9.1	493	12	US-10-017-754-143
10	490	9.1	493	12	US-09-930-213-143
11	447	8.3	447	14	US-10-066-543-254
12	447	8.3	447	11	US-09-822-995-563
13	420.2	7.8	429	11	US-09-918-995-35949
14	416	7.7	429	11	US-09-918-995-35949
15	416	7.7	470	11	US-09-918-995-9931
16	379	7.0	380	11	US-09-918-995-36406

C 17	372	6.9	373	10	US-09-796-692-4329	Sequence 4329, Ap
C 18	372	6.9	373	14	US-10-040-862-4329	Sequence 4329, Ap
C 19	372	6.9	373	14	US-09-796-692-9228	Sequence 9228, Ap
C 20	372	6.9	373	14	US-10-040-862-9228	Sequence 9228, Ap
C 21	309.4	5.7	311	10	US-09-796-692-3613	Sequence 3613, Ap
C 22	309.4	5.7	311	13	US-09-796-692-4001	Sequence 4001, Ap
C 23	309.4	5.7	311	14	US-10-040-862-3613	Sequence 3613, Ap
C 24	309.4	5.7	311	14	US-10-040-862-4001	Sequence 4001, Ap
C 25	285.4	5.3	497	11	US-09-918-995-25756	Sequence 25756, A
C 26	285.4	5.3	497	11	US-09-918-995-25756	Sequence 25756, A
C 27	253.8	4.7	1293	12	US-09-864-761-16932	Sequence 16932, A
C 28	245.2	4.5	472	9	US-09-864-761-16932	Sequence 16932, A
C 29	227	4.2	227	9	US-09-864-761-16932	Sequence 16932, A
C 30	227	4.2	227	9	US-09-864-761-16932	Sequence 16932, A
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C 32	198	3.7	440	10	US-09-960-352-9205	Sequence 9205, Ap
C 33	198	3.7	440	10	US-09-960-352-9205	Sequence 9205, Ap
C 34	178.4	3.3	180	9	US-09-864-761-16933	Sequence 16933, A
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C 36	150	2.8	255	10	US-09-930-213-444	Sequence 444, App
C 37	149	2.8	460	9	US-09-864-761-15018	Sequence 15018, A
C 38	149	2.8	460	9	US-09-864-761-15018	Sequence 15018, A
C 39	145	2.7	492	9	US-09-864-761-16933	Sequence 16933, A
C 40	144.8	2.7	614	14	US-10-198-846-6592	Sequence 6592, Ap
C 41	142.8	2.6	457	14	US-10-198-846-13343	Sequence 13343, A
C 42	126	2.3	126	9	US-09-864-761-15550	Sequence 31550, A
C 43	125	2.1	954	9	US-09-770-445-327	Sequence 327, App
C 44	106	2.0	4000	9	US-09-826-752-5	Sequence 5, App-1
C 45	102	1.9	168	10	US-09-878-178-1434	Sequence 1434, Ap

#### ALIGNMENTS

#### Result 1

US-10-205-219-176  
; Sequence 176, Application US:102052-9  
; Publication No. US2003039803A1  
; GENERAL INFORMATION:  
; APPLICANT: Warner-Lambert Company  
; APPLICANT: Lee, Kevin  
; APPLICANT: Dixon, Alstair  
; APPLICANT: Brookbank, Robert  
; APPLICANT: Pirrock, Robert  
; TITLE OF INVENTION: Identification and Use of Molecules Implicated in Pain  
; FILE REFERENCE: WU-A-018206  
; CURRENT FILING DATE: 2002-07-24  
; PRIOR APPLICATION NUMBER: US/10/205,219  
; PRIOR FILING DATE: 2001-07-27  
; NUMBER OF SEQ ID NOS: 197  
; SOFTWARE: PatentIn ver. 2.1  
; SEQ ID NO 176  
; LENGTH: 5162  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; OTHER INFORMATION: KIAA0235  
US 10-205-219-176

Query Match 91.0% Score 4915; DB 12; Length 5162;

Best Local Similarity 95.6%; Pred. No. 0;

Mismatches 5162; Conservative 3; Mismatches 3; Indels 237; Gaps 21

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QY	61	CTTACAGTTTACATATCTGTTATCAGTACGATACCAATGACCTTTCAGAGACTACTGTAGG 120	
DB	61	CTTACAGTTTACATATCTGTTATCAGTACGATACCAATGACCTTTCAGAGACTACTGTAGG 120	
QY	121	CGTTTTCAGTACATATCTGTTATCAGTACGATACCAATGACCTTTCAGAGACTACTGTAGG 180	

121 CCCTTTTGACTAGCAATTCACAGCAGCAGCTCTCTCAGAGGACTAATGCACTAACAGTTCA 180  
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DB	2104	GAAGGACCAGTATGCCAAATTACGGGTTCAAAAGATGATGATATGGCTGAACCTGCTCA	2163
QY	2401	GAGAAAGATATATCATGACACAGAATTGCACCTACATCTACTCTTGGCGGAATATACAGATA	2460
DB	2164	GAGAAAGATATATCATGACACAGAATTGCACCTACATCTACTCTTGGCGGAATATACAGATA	2223
QY	2461	CGGAAGCATATACTGGCCAAAGTTGGAAGAGTATATTGGAAGAAAGCCGGGACCTAGG	2520
DB	2224	CGGAAGCATATACTGGCCAAAGTTGGAAGAGTATATTGGAAGAAAGCCGGGACCTAGG	2283
QY	2521	ACCTATTGGAGGACCACCAAAATGGAATGCTGTAAATTACAGGACGACAGAGAAAGAGATA	2580
DB	2284	ACCTATTGGAGGACCACCAAAATGGAATGCTGTAAATTACAGGACGACAGAGAGAGAGATA	2343
QY	2581	ATTTAACCATGTGAAGAAGATTTTTTTTGTGCGTGAAATTATCAAAACACACTCAACTNG	2640
DB	2344	ATTTAACCATGTGAAGAAGATTTTTTTTGTGCGTGAAATTATCAAAACACACTCAACTNG	2403
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DB	2464	TTTTTAAGGTCCTTGTGTATATTTGGGGGCTGGGGATGAATATAAAATATATTTCAGGC	2523
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DB	2644	AAAAATAGTTTTTAAAGGAAAAAGTACAGTATCTTTTAATAAACTGGCTCAGACGCTGG	2703
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DB	2764	ATTTTTTCCTTTTGGGTGAACCTTTTATACAGATTAAACATCACTGATCAATATTA	2823
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DB	2824	TTAATAATTTAAAGAGAGTTAAGTTGTATTTTGATAATTCACAAATATATCATCAATAA	2883
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DB	2944	AGATGTGGTTTTTAATCAAAATCTCGCCCTAATAATGTCTCTGGCAATGTACAGAAATTTG	3003
QY	3241	TATATACTTACATATGTAATTTGTTTGAAGAGTTAAATACAAAAATCATGGTGAACCTGCA	3300
DB	3004	TATATACTTACATATGTAATTTGTTTGAAGAGTTAAATACAAATCATGGTGAACCTGCA	3063
QY	3301	ATTAAAGTGCACATAATGAAAGTTTAAGTCACTTATTAACTTTTTCAGTTTGGTTGGCAATG	3360
DB	3064	ATTAAAGTGCACATAATGAAAGTTTAAGTCACTTATTAACTTTTTCAGTTTGGTTGGCAATG	3123
QY	3361	AGAAAGAGTGGAAATTTGTATTTTGTGTTTGTCTTATAGAAATTTACAGACATGTTTGGAGAGT	3420
DB	3124	AGAAAGAGTGGAAATTTGTATTTTGTGTTTGTCTTATAGAAATTTACAGACATGTTTGGAGAGT	3183

[illegible]

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4356	GGCATAAAGATT	GGGATGCGAGGCATAC	TTTTCATGTTTGGTGTGGATTAATTACT	4620
4324	GGCATAAAGATT	GGGATGCGAGGCATAC	TTTTCATGTTTGGTGTGGATTAATTACT	4353
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4394	TTTCTAACCCAAACAT	TCCTTGGTGAGACCAAT	TAAATCCAAACACTTGTACCCGTCTCTTC	4443
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4741	TCATTTTTTTAAAA	CCCCACACAAAGCCGTCT	CTCCATTTTCTCTACTTTACCAACTCA	4800
4504	TCATTTTTTTAAAA	CCCCACACAAAGCCGTCT	CTCCATTTTCTCTACTTTACCAACTCA	4563
4801	GAGTATTCGGCCG	GTATCGAACTTTTGTCT	TCAGTATCAGCCCATGTTTCAGGATCAAA	4860
4564	GAGTATTCGGCCG	GTATCGAACTTTTGTCT	TCAGTATCAGCCCATGTTTCAGGATCAAA	4623
4661	AGCTGTCTCATGTT	GGAGATTGGTAATGCGTT	TCCTGTCTTTGTACAGTTGAATTCCTAGTC	4920
4624	AGCTGTCTCATGTT	GGAGATTGGTAATGCGTT	TCCTGTCTTTGTACAGTTGAATTCCTAGTC	4663
4921	TTCTCTTCATCCTT	CGCCCTCTCTTGGCACAG	GCATTATCTCTGCAATTTTGAAGAAATGACA	4980
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4744	AGTAGAGAAATACT	TACATTTGAGAAACT	TAAGCCCTCTCTTGGGGTCCTGTACATCTCC	4803
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4804	ATTGTGCCAGTCGT	GACAAACCCCAATCTT	CCCANTACTTTTCAGGCTGCTCTACAAAGT	4863
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5281	GACCAGTTTGTCTA	AGTCTCGGCTCTTATT	TGGTTTCATATGAATAATGTTAACTCTCACCT	5340
5044	GACCAGTTTGTCTA	AGTCTCGGCTCTTATT	TGGTTTCATATGAATAATGTTAACTCTCACCT	5103
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5104	CTTTGTATCTATTG	TATATAAATTAGAAAT	TGAAATGTGTGAATTAACATTGTATGAAT	5162

RESULT 2		
3-09-826-752-7		
Sequence 7, Application US/09826752		
Patent No. US200100326930A1		
GENERAL INFORMATION:		
APPLICANT: Guarente, Leonard P.		
APPLICANT: Austriaco Jr., Kicahor		
APPLICANT: Claus, James J.		
APPLICANT: Cole, Francesca		
APPLICANT: Kennedy, Brian		
TITLE OF INVENTION: GENES DETERMINING CELLULAR SENESENCE IN		
TITLE OF INVENTION: YEAST		
FILE REFERENCE: 0050.491-505		

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1795 GACTTGTAGTCTCTGCCCCAGTCACTCAATAGTTTCTCTAGCTGCACAGCAGCTGTCAG 1854  
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QY 555 TTGGGCCAAATGGCACTCAGCCACACAG---CAGCAGCAACAGCAGCAGCACTAATG 912  
Db 1915 TTGGCCCTTTAGGAACACAGCAGCCTCAGCCGAGCCGAGCAGCAGCCCAATAACACC 1974  
QY 912 TGCATCTAAATCAATTTATGGAAGCAGTCTTTGACTATACCTCCAGAGTGTCTCT 971  
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QY 972 TATTTTCTCATGACCTGGTCAACCTGGAGTACATCTCTCTGGCTTTGGAAGTGGTAACT 1031  
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QY 1092 CAAGTAGTGTGCCAAGSAGAGAGTCTCTATCTACTAGCTGTACTTGTCAAAAGAT 1151  
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QY 1152 CTAGTAGCAGCCTAGCACCCATAGGCAACCATTTTACAACTAGCTTGGGATTTCTCTCT 1211  
Db 2215 CATCGAGCAGCTTGACCCCATTTGGACACAGTTTATTAAGGCCCTTASCTTTCTCTCT 2274  
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QY 1272 CGCCTACCTTTCATCATCATGGAATGCTCATCCAGTTTGATTTAGGAGCAGTACAAATG 1331  
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QY 1332 GTAGTGTCTGATATATCTTGCAACACCTCGAGCAGAAAGCAAAATATCGAAGTGGCTCAA 1391  
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QY 1392 GCACTTCCAGTCTATTAGCTCAGCAGCCAGCTCTTTCTCTCTCCGCTTCGCTATA 1451  
Db 2455 GCGCCTCCAGCCTCTTCAGCCCGAGCAGCACTCTTTCTCTCTCTCTCTCTCTCTCTCT 2514  
QY 1452 ATAGGTCTGATATTATGCTTCTGGCGCAGTATGATTTATGGAGATTTTCAGAACACCC 1511  
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QY 1512 GCTTCCCAACCTTCAGCTTAGAGATTTGATTTGGACATATATGAGTCTTCTCAGACCC 1571  
Db 2575 GGTACCCCAATTTACAACTCGGGAGATTTCTGGACATATAAGGAATTTTCCCAAGACC 2634  
QY 1572 AGCATGTTCTAGATTCATACAGCAAAACTAGAGAGAGTACTCCAGCTGAGCAGAGA 1631  
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QY 1632 TGGTATTAAATGAAATTTCTGCAGCAGCCTATCAATTAATGACTGATGTTTGGCAACT 1691  
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QY 1692 ATGTTATACAGAAATTTTGGAGTTGGAGCTCGGATCAAAATTTAGCCCTGGTACTC 1751  
Db 2755 ACCTCATTCAGAAATTTTGAATTTGGCAGTCTTGAACAGAAAGCTGGCTTTGGAGAAC 2814  
QY 1752 GTATTCGTGCTATGTTCTACCTTAGCCTTGAGATGATGCTGCCGCTTATTCAGA 1811  
Db 2815 GGATTCAGGCCAGCTCTCTGTCTATGGCACTACAGATGATGCTGCTGCTGTTATCCAGA 2874

QY 1812 AAGCATTAAGATCTATCTCTCTGACCAGCAGAGTAAATGTAAGGAGCTGATGCTC 1871  
Db 2875 AAGCTCTTGAATTTATCTCTCAGACAGCAGAAATGAGATGTTTCGGGAATCATAGTGGCC 2934  
QY 1872 ATGTGCTCAATGTGTAAAGATCAGAAATGGAATCCATGTTGTACAAAAATGTATCGAAT 1931  
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QY 1932 GTGTTCAGCCACAGCTACATGATGCTCATCTCATTTGCTTTTCAAGGGACAAATTTTGTGC 1991  
Db 2995 GTGTACAGCCCAAGTCTTTGCAATTTATCATCGATGCTTTAAGGGACAGGTATTTGCT 3054  
QY 1992 TTTCAACTCACTCTATGCTGTCAGAGTAATTCAGCGCATCTAGAGCATTCAGCATGCGAG 2051  
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QY 2052 AACAGACCTTACCTATCTTAGAAGAACTCCCAACATACAGAGCAGTTGGTACAGGATC 2111  
Db 3115 ACCAGACACTCCCTATTTTAGAGGAGCTTCCACAGCACAGAGCAGCTTGTACAGGATC 3174  
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QY 2172 AAATGTTTCCGAAATCAGGGGAAAGTTTTAGCCCTGAGTCAACACAAATTTGCGCAGCA 2231  
Db 3235 AAATGTAGCAGAAATCCGAGGCAATTTACTGTATTTGAGTCAGCACAAATTTGCAAGCA 3294  
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QY 2292 AGTGTGTGTCAGAAATGATGTTGCTCTCAGCTGCTTATACCATGATGAGGACCACT 2351  
Db 3355 AGGTGTGCACTGAAACAGCAGCTGCTCCACAGCTGCTTATACCATGATGAGGACCACT 3414  
QY 2352 ATGCCAATTTAGTGTCTCAAAAGATGATTGATTTGGCTGAACTGCTCAGAGAAAGATAA 2411  
Db 3415 ATGCCAATTTAGTGTCTCAGAAATGATTGAGTGTGCGGAGCAGGCGCAGGGAAGATCG 3474  
QY 2412 TCATGCACAAGATTTGACCTTACATTTACTTCTTTCGCAAAATACACATACCGGAAGATA 2471  
Db 3475 TCATGCATAAGATTCGCGCCACATTCGCAACTCTCTGTAAGTACACTTATGCAAGCACA 3534  
QY 2472 TACTGCGCAGTTGGAAGATTTATTTGAAGATAGCCGAGCCTAGSACTTATTSAG 2531  
Db 3535 TTCTGGCAAGCTGGAAGTACTACATGAAGACGTTGTGACTTAGGGCCCATCTCTGTG 3594  
QY 2532 GACCACCAATGGAATGCTGTA 2554  
Db 3595 GCGCCCTTATGTTATCATCTGA 3617

RESULT 3  
US-10-197-666A-139  
; Sequence 139, Application US/10197666A  
; Publication No. US2003092037A1  
; GENERAL INFORMATION:  
; APPLICANT: ASAH: KASEI KABUSHIKI KAISYA  
; TITLE OF INVENTION: Elix: phosphorylation: related gene  
; FILE REFERENCE: PH-1548US  
; CURRENT APPLICATION NUMBER: US/10197666A  
; CURRENT FILING DATE: 2002-01-18  
; PRIOR APPLICATION NUMBER: JP 2001-218204  
; PRIOR FILING DATE: 2001-07-18  
; PRIOR APPLICATION NUMBER: JP 2001-263450  
; PRIOR FILING DATE: 2001-08-31  
; PRIOR APPLICATION NUMBER: JP 2002-012176  
; PRIOR FILING DATE: 2002-01-21  
; PRIOR APPLICATION NUMBER: US 60/305,894  
; PRIOR FILING DATE: 2001-07-18  
; PRIOR APPLICATION NUMBER: US 60/316,304  
; PRIOR FILING DATE: 2001-09-04

PRIOR APPLICATION NUMBER: US 60/350,027

PRIOR FILING DATE: 2002-01-23

NUMBER OF SEQ ID NOS: 156

SOFTWARE: PatentIn ver. 2.1

SEQ ID NO 139

LENGTH: 6359

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: CDS

LOCATION: [96... (3653)]

US-10-137-666A-139

Query Match 24.3% Score 1314.2; DB 14; Length 5359;

Best Local Similarity 71.4%; Pred No 2 6e-294;

Matches 1816; Conservative 0; Mismatches 688; Indels 39; Gaps 5;

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QY 150 TCTTTACAGGACTTAATGCATTAACAGTTCAACAGTTAACTCAGCTCAACAGCAGCAAT 209
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QY 210 ATGCAATTAGCAGAGCTCAGCAGGACCATATAGCTGGTGTATTTCTCAGCAGGCTTCTC 269
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DB 1594 AGCAGCAGGTCTCTCGTGGAGGAGCCAGCAACTCTCTTTGACCCCAACCAAGCAAGC 1653
QY 564 AAGGGCAGCAGCAAGATCACTTGGGAGCTGAGCAGCAAAATCCAAATTTGGCTTTTG 623
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DB 1714 GACAAGCTTGGCAGCAGGATGCGAGCTTATCGGTGTCTGGCTCTGCTTCTTCTTCTT 1773
QY 684 ATCAGCTGGTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 743
DB 1774 ACCAACTTGGTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 1833
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DB 1834 GACTTGTAGCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 893
QY 795 CAGCAGCAGCAGCTGGAGAACTCCAAAGTACGCTTACAGCAGCAGCAAAATTTGGTCTCT 854
DB 1894 CAGCCGAGCTTTCAGCAAAATGGAGCAGCTGTGTGTCTTGTGTGAACCAAAATTTGACCAT 953
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RESULT: 4  
US-10-197-666A-137  
; Sequence 137, Application US/10197666A  
; Publication No. US20030092037A1  
; GENERAL INFORMATION:  
; APPLICANT: ASAH KASEI KABUSIKI KAISYA  
; TITLE OF INVENTION: Elki phosphorylation related gene  
; FILE REFERENCE: 2H-1548US  
; CURRENT APPLICATION NUMBER: US/0197,666A  
; PRIOR FILING DATE: 2002-11-18  
; APPLICATION NUMBER: JP 2001-218204  
; PRIOR FILING DATE: 2001-07-15  
; APPLICATION NUMBER: JP 2001-263450  
; PRIOR FILING DATE: 2001-08-31  
; APPLICATION NUMBER: JP 2002-01276  
; PRIOR FILING DATE: 2002-01-21  
; APPLICATION NUMBER: US 60/305,884  
; PRIOR FILING DATE: 2001-07-18  
; APPLICATION NUMBER: US 60/316,304  
; PRIOR FILING DATE: 2001-09-04  
; APPLICATION NUMBER: US 60/350,027  
; PRIOR FILING DATE: 2002-01-23  
; NUMBER OF SEQ ID NOS: 156  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 137  
; LENGTH: 4021  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:

NAME/KEY: CDS  
; LOCATION: 911... (3651)  
US-10-197-666A-137  
Query Match 24.0%; Score 1299.2; DB 14; Length 4021;  
Best Local Similarity 71.2%; Pred. No. 11e-290;  
Matches 1816; Conservative 0; Mismatches 689; Indels 45; Gaps 6;  
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270 CAGCTGCAATTTGTCCCAATCCATACATTTAGTGTGCTGCTCCAGGAGCCGATCCGT 329  
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330 ATACTGCAAGAGGATTTGGCTCAGCAGCTACATTTAGCAGGTTCCAGCAGTGTGTTCCAC 389  
1459 ACA---CAGCTGGATTTGGCTCAGCAGGACACTAGGCCAGCTGTGGTCCCTCACCAGT 1465  
330 AGTATTAGCGGCTTCCATGCGGGGTGTATCCAGCGCACTTAATTCAGCAGGAA-----G 443  
1456 ATTTAGGAGTTACTCCCTGCGGAGTCTACCTGCGAGTCTTTCCAGCAGCAAGCTCGCG 1525  
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1586 AGCAGCAGTTCTCGGTGAGGAGCCAGCAAGCTCTTTCACCCCAACAGCAACAGC 1645  
564 AAGGCGCAGCAGCAGATCACTTGGGCGAGCTCAGCAGCAAAATCCAAATATGGCTTTTG 623  
1646 AGGACAGCAAAACGATCCCTTTGCGAGCTGAGCAGTGAATTTCTGCGCTTCAATATG 1705  
624 GTCAGGCTCTTGTACTGGCATGCCAGCTATCAAGTACTAGCTCCCAACTGCTTATATG 683  
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1766 ACCAACTGGTGGCTTGTAGTGAATGAGCGGAGAAATGGTCTTSGAGTCTCTGTC 1825  
744 GGTATATGCTCCAAACAGCTTTTATTTAGTTTACAGCAGCAGCAGCA-----CGTG 794  
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795 CAGCAGCAGCAGCAGCTGGAGGAATCCAGTAGCTTTACAGGAGCAGCAAAATGCTGT 854  
1886 CAGCGCAGCTTACAGCAATGGAGCAGCTGTGTCTTCTGAGCAACCAATGGACCAT 1945  
855 TTGGGCCAATTTGGCACTCAGCCACAG-----CAGCAGCAACAGCAGCAGCAACTAATC 911  
1946 TTGGCCCTTTAGGAACAGCAGCAGCTCAGCCCGCAGCCCGCAGCAGCAGCCCAATAACACC 2005  
912 TGCATCTAATTTCTATTATGGAGAGCAGTCTTTTGTACTAATAGCTCCAGAGTACTTCT 971  
2006 TGGCATCCAGTTCTTTCTACGGCAACAACTCTCTGAACAGCAATTCACAGCAGCAGCTCC 2065  
972 TATTTCCTCATGGACCTGTCACCTGGAAGTACATCTCTTGGCTTTGGAGAGTGGAAT 1031



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Db 671 CAAGAATAAAGTGGTTTGTAGATGAAAGAACCTTAACATTTATTTACAGTAGATGCTGGTTT 612
Qy 3193 AATACAAATTAAGTGGTCTGCTGCAATGTACAGAAATATTTATATACCTTACA 3252
Db 611 AATACAAATTAAGTGGTCTGCTGCAATGTACAGAAATATTTATATACCTTACA 552
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Db 551 TAGTAAATTTGTTTAAAGAGTTAAATACAAATCATGTTGACACTTCCAAATTAAGTGCAT 492
Qy 3313 AATGAAAGTTAAGTGCATTTATTAATTTTCAAGTTTGGTTTCAATGAGAAAGAGTGA 3372
Db 491 AATGAAAGTTAAGTGCATTTATTAATTTTCAAGTTTGGTTTCAATGAGAAAGAGTGA 432
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Qy 3433 TTTGCTTTTTCATAGAGGAGAAAGTAGGACAGATAGAGATGAAAGGGGCGCACTGAA 3492
Db 371 TTTGCTTTTTCATAGAGGAGAAAGTAGGACAGATAGAGATGAAAGGGGCGCACTGAA 312
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Db 191 ATCTTGTTTCAATGTTTATATAAAGCCTTGTAAATTTAGTAGTATGCTTCTTGGT 132
Qy 3673 TGTACAGGTGTACATTTGTAAACCTTCATGCTGTAATGTAATTTGTTTATCTTTTGG 3732
Db 131 TGTACAGGTGTACATTTGTAAACCTTCATGCTGTAATGTAATTTGTTTATCTTTTGG 72
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Db 11 GTTGTATATG 1
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## RESULT 6

US-09-902-941-1431/c

; Sequence 1431: Application US/09902941

; Patent No. US20020172952A1

; GENERAL INFORMATION:

; APPLICANT: Henderson, Robert A.

; APPLICANT: Wang, Tongtong

; APPLICANT: Watanabe, Yoshihiro

; APPLICANT: Johnson, Jeffrey C.

; APPLICANT: Retter, Marc W.

; APPLICANT: Marnierakis, Margarita

; APPLICANT: Carter, Derrick

; APPLICANT: Fanger, Gary R.

; APPLICANT: Vedvick, Thomas S.

; APPLICANT: Bangur, Chaitanya S.

; APPLICANT: McNabb, Andria

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY

; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER

; FILE REFERENCE: 2:0121.478C17

; CURRENT APPLICATION NUMBER: US/09/902.941

; CURRENT FILING DATE: 2001-07-10

; NUMBER OF SEQ ID NOS: 2502

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 1431

; LENGTH: 734

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-902-941-1431

Query Match 13.5%; Score 728.6; DB 10; Length 734;

Best Local Similarity 99.6%; Pred. No. 8.7e-159;

Matches 728; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

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Qy 3073 AAAGAGTTAAGTGTATTTGATTAATTCACAAATATCATGCAATTAACGAGTAGTGA 3132
Db 731 AAAGAGTTAAGTGTATTTGATTAATTCACAAATATCATGCAATTAACGAGTAGTGA 672
Qy 3133 CAAGAATAAAGTGGTTTGTAGATGAAAGAACCTTAACATTTATTTACAGTAGATGCTGGTTT 3192
Db 671 CAAGAATAAAGTGGTTTGTAGATGAAAGAACCTTAACATTTATTTACAGTAGATGCTGGTTT 612
Qy 3193 AATACAAATTAAGTGCATTTATTAATTTTCAAGTTTGGTTTCAATGAGAAAGAGTGA 3252
Db 611 AATACAAATTAAGTGCATTTATTAATTTTCAAGTTTGGTTTCAATGAGAAAGAGTGA 552
Qy 3253 TATTAATTTGTTTAAAGAGTTAAATACAAATCATGTTGACACTTCCAAATTAAGTGCAT 3312
Db 551 TATTAATTTGTTTAAAGAGTTAAATACAAATCATGTTGACACTTCCAAATTAAGTGCAT 492
Qy 3313 AATGAAAGTTAAGTGCATTTATTAATTTTCAAGTTTGGTTTCAATGAGAAAGAGTGA 3372
Db 491 AATGAAAGTTAAGTGCATTTATTAATTTTCAAGTTTGGTTTCAATGAGAAAGAGTGA 432
Qy 3373 AATTTGATTTTGGTTTGTATAGAAATACAGACATTTGAGGAAGTGTGAGCTTTAT 3432
Db 431 AATTTGATTTTGGTTTGTATAGAAATACAGACATTTGAGGAAGTGTGAGCTTTAT 372
Qy 3433 TTTGCTTTTTCATAGAGGAGAAAGTAGGACAGATAGAGATGAAAGGGGCGCACTGAA 3492
Db 371 TTTGCTTTTTCATAGAGGAGAAAGTAGGACAGATAGAGATGAAAGGGGCGCACTGAA 312
Qy 3493 AAGTGAATTTGATGCTAGCATTAAAGCATGATTACATATTCAGATAGCTTTTGGT 3552
Db 311 AAGTGAATTTGATGCTAGCATTAAAGCATGATTACATATTCAGATAGCTTTTGGT 252
Qy 3553 TTTCTAAATTAATGCAATGCTGCTGCTAGTAAATGATGTAATTTACATTTTGAAGGAA 3612
Db 251 TTTCTAAATTAATGCAATGCTGCTGCTAGTAAATGATGTAATTTACATTTTGAAGGAA 192
Qy 3613 ATCTTGTTTCAATGTTTATATAAAGCCTTGTAAATTTAGTAGTATGCTTCTTGGT 3672
Db 191 ATCTTGTTTCAATGTTTATATAAAGCCTTGTAAATTTAGTAGTATGCTTCTTGGT 132
Qy 3673 TGTACAGGTGTACATTTGTAAACCTTCATGCTGTAATGTAATTTGTTTATCTTTTGG 3732
Db 131 TGTACAGGTGTACATTTGTAAACCTTCATGCTGTAATGTAATTTGTTTATCTTTTGG 72
Qy 3733 GATACATTTGCAATTTTAGTGTACATTTAGTCTGCTGCTTCTTGGCTGGCAATATAGT 3792
Db 71 GATACATTTGCAATTTTAGTGTACATTTAGTCTGCTGCTTCTTGGCTGGCAATATAGT 12
Qy 3793 GTTGTATATG 3803
Db 11 GTTGTATATG 1
```

## RESULT 7

US-09-849-626-1431/c

; Sequence 1431: Application US/09849626

; Publication No. US2002019769A1

; GENERAL INFORMATION:

; APPLICANT: Bangur, Chaitanya

; APPLICANT: Fanger, Gary

; APPLICANT: Wang, Aijun

; APPLICANT: Wang, Tongtong

; APPLICANT: Switzer, Anne

; APPLICANT: McNeill, Patricia

; APPLICANT: Clapper, Jonathan

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND

```

; TITLE OF INVENTION:  DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE:  210121.478C16
; CURRENT APPLICATION NUMBER:  US/09/849,626
; CURRENT FILING DATE:  2001-05-03
; NUMBER OF SEQ ID NOS:  1926
; SOFTWARE:  FastSeq for Windows Version 3.0
; SEQ ID NO 1431
; LENGTH:  734
; TYPE:  DNA
; ORGANISM:  Homo sapien
; US-09-849-626-1431

Query Match      13.58;  Score 728.6;  DB 10;  Length 734;
Best Local Similarity 99.68;  Pred. No. 8.7e-59;
Matches 728;  Conservative 2;  Mismatches 1;  Indels 0;  Gaps 0;

QY 3673 AAAGAGTTAGTTGTTATTTTGAATTCACAACTATCATGCAAAATACGAGTAAGTAGA 3132
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 731 AAAGAGTTAGTTGTTATTTTGAATTCACAACTATCATGCAAAATACGAGTAAGTAGA 672
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 3133 CAAGAAATAAGTGGTTTGAGATGAAAGAACCTAACATATTTTACAGTAGATGGTTT 3192
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 671 CAAGAATAAGTGGTTTGAGATGAAAGAACCTAACATATTTTACAGTAGATGGTTT 612
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 3193 AATACAAATTACTGCCCTAAATGCTCTGCAATGTACAGAAATATGTATATACATTACA 3252
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 611 AATACAAATTACTGCCCTAAATGCTCTGCAATGTACAGAAATATGTATATACATTACA 552
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 3253 TATGTAATGTTGTAGAGTTAATACAAATCATGGTGACATTTCCATTAAGTGCACCT 3312
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 551 TATGTAATGTTGTAGAGTTAATACAAATCATGGTGACATTTCCATTAAGTGCACCT 492
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 3313 AAATGAAAGTTAAGTCACTTATTAAGTTTTCAGTTTGGTTTGCATGAGAAAGAGTGA 3372
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 491 AAATGAAAGTTAAGTCACTTATTAAGTTTTCAGTTTGGTTTGCATGAGAAAGAGTGA 432
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 3373 AATTGTATTTGTTTGGTTTTCATAGATTACAGACATGTTGAGGAAGTGTAGCTTTAT 3432
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 431 AATTGTATTTGTTTGGTTTTCATAGATTACAGACATGTTGAGGAAGTGTAGCTTTAT 372
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 3433 TTCTATTAATATATGCAATGTTGTGTAGTAAAGAGTAAAGTAAAGAGGAGTGA 3492
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 371 TTCTATTAATATATGCAATGTTGTGTAGTAAAGAGTAAAGTAAAGAGGAGTGA 312
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 3493 AAGTGAATTTGATAGCTAGCATTAAAGCATGATTACATATTCAGATAGCTTTTGGCT 3552
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 311 AAGTGAATTTGATAGCTAGCATTAAAGCATGATTACATATTCAGATAGCTTTTGGCT 252
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 3553 TTCTATTAATATATGCAATGTTGTGTAGTAAAGAGTAAAGTAAAGAGGAGTGA 3612
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 251 TTCTATTAATATATGCAATGTTGTGTAGTAAAGAGTAAAGTAAAGAGGAGTGA 192
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 3613 ACTTGTGTTTCAATGTTTATTAATAAGCCCTTGCTAAATTAGTAGTAGTGCTTTCCCTGGT 3672
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 191 ACTTGTGTTTCAATGTTTATTAATAAGCCCTTGCTAAATTAGTAGTAGTGCTTTCCCTGGT 132
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 3673 TGTACAGGTGTACATTTGTAAACCTTCATGCTGTAAATGGAATTTTATCTCTCTGG 3732
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 131 TGTACAGGTGTACATTTGTAAACCTTCATGCTGTAAATGGAATTTTATCTCTCTGG 72
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 3733 GATACATTTGCAATTTAGTGTACATTTACCTCTCTGCTGCTTTGACCTGGCAATATAGT 3792
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 71 GATACATTTGCAATTTAGTGTACATTTACCTCTCTGCTGCTTTGACCTGGCAATATAGT 12
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 3793 GTTGTAATAGT 3863
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 11 GTTGTAATAGT 1
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

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## RESULT 8

US-10-113-872-1431/c

; Sequence 1431, Application US/01113472

; Publication No. US20030170255A1

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; GENERAL INFORMATION:
; APPLICANT:  Matanabe, Yoshihiro
; APPLICANT:  Henderson, Robert A.
; APPLICANT:  Kato, Michael D.
; APPLICANT:  Seath, Paul R.
; APPLICANT:  Vedvick, Thomas S.
; APPLICANT:  Carter, Darick
; APPLICANT:  Fanger, Gary R.
; TITLE OF INVENTION:  COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION:  AND DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE:  210121.478C16
; CURRENT APPLICATION NUMBER:  US/07/113,872
; CURRENT FILING DATE:  2002-03-28
; NUMBER OF SEQ ID NOS:  1911
; SOFTWARE:  FastSeq for Windows Version 4.0
; SEQ ID NO 1431
; LENGTH:  734
; TYPE:  DNA
; ORGANISM:  Homo sapiens
; US-10-113-872-1431

```

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Query Match      13.58;  Score 728.6;  DB 12;  Length 734;
Best Local Similarity 99.68;  Pred. No. 8.7e-59;
Matches 728;  Conservative 2;  Mismatches 1;  Indels 0;  Gaps 0;

QY 3073 AAAGAGTTAAGTTGTTATTTTGAATTCACAACTATCATGCAAAATACGAGTAAGTAGA 3132
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 731 AAAGAGTTAAGTTGTTATTTTGAATTCACAACTATCATGCAAAATACGAGTAAGTAGA 672
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 3133 CAAGAATAAGTGGTTTGAGATGAAAGAACCTAACATATTTTACAGTAGATGGTTT 3192
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 671 CAAGAATAAGTGGTTTGAGATGAAAGAACCTAACATATTTTACAGTAGATGGTTT 612
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 3193 AATACAAATTACTGCCCTAAATGCTCTGCAATGTACAGAAATATGTATATACATTACA 3252
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 611 AATACAAATTACTGCCCTAAATGCTCTGCAATGTACAGAAATATGTATATACATTACA 552
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 3253 TATGTAATGTTGTAGAGTTAATACAAATCATGGTGACATTTCCATTAAGTGCACCT 3312
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 551 TATGTAATGTTGTAGAGTTAATACAAATCATGGTGACATTTCCATTAAGTGCACCT 492
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 3313 AAATGAAAGTTAAGTCACTTATTAAGTTTTCAGTTTGGTTTGCATGAGAAAGAGTGA 3372
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 491 AAATGAAAGTTAAGTCACTTATTAAGTTTTCAGTTTGGTTTGCATGAGAAAGAGTGA 432
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 3373 AATTGTATTTGTTTGGTTTTCATAGATTACAGACATGTTGAGGAAGTGTAGCTTTAT 3432
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 431 AATTGTATTTGTTTGGTTTTCATAGATTACAGACATGTTGAGGAAGTGTAGCTTTAT 372
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 3433 TTCTATTAATATATGCAATGTTGTGTAGTAAAGAGTAAAGTAAAGAGGAGTGA 3492
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 371 TTCTATTAATATATGCAATGTTGTGTAGTAAAGAGTAAAGTAAAGAGGAGTGA 312
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 3493 AAGTGAATTTGATAGCTAGCATTAAAGCATGATTACATATTCAGATAGCTTTTGGCT 3552
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 311 AAGTGAATTTGATAGCTAGCATTAAAGCATGATTACATATTCAGATAGCTTTTGGCT 252
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 3553 TTCTATTAATATATGCAATGTTGTGTAGTAAAGAGTAAAGTAAAGAGGAGTGA 3612
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 251 TTCTATTAATATATGCAATGTTGTGTAGTAAAGAGTAAAGTAAAGAGGAGTGA 192
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 3613 ACTTGTGTTTCAATGTTTATTAATAAGCCCTTGCTAAATTAGTAGTAGTGCTTTCCCTGGT 3672
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 191 ACTTGTGTTTCAATGTTTATTAATAAGCCCTTGCTAAATTAGTAGTAGTGCTTTCCCTGGT 132
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 3673 TGTACAGGTGTACATTTGTAAACCTTCATGCTGTAAATGGAATTTTATCTCTCTGG 3732
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 131 TGTACAGGTGTACATTTGTAAACCTTCATGCTGTAAATGGAATTTTATCTCTCTGG 72
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 3733 GATACATTTGCAATTTAGTGTACATTTACCTCTCTGCTGCTTTGACCTGGCAATATAGT 3792
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 71 GATACATTTGCAATTTAGTGTACATTTACCTCTCTGCTGCTTTGACCTGGCAATATAGT 12
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 3793 GTTGTAATAGT 3863
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 11 GTTGTAATAGT 1
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

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QY 3793 GTTGTAATAG 3803
DB |||||
11 GTTGTAATAG 1

RESULT 9
US-10-017-754-143/c
; Sequence 143, Application US/10017754
; Publication No. US20030054363A1
; GENERAL INFORMATION:
; APPLICANT: Henderson, Robert A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Watanabe, Yoshihiro
; APPLICANT: Johnson, Jeffrey C.
; APPLICANT: Retter, Marc W.
; APPLICANT: Kernerakis, Margarita
; APPLICANT: Carter, Derrick
; APPLICANT: Fanger, Gary R.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: McNabb, Andria
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210-211.478C18
; CURRENT APPLICATION NUMBER: US/10/017,754
; PRIOR FILING DATE: 2001-10-29
; NUMBER OF SEQ ID NOS: 2504
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1431
; LENGTH: 734
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-017-754-1431

Query Match 13.5%; Score 728.6; DB 14; Length 734;
Best Local Similarity 99.6%; Pred. No. 8.7e-159;
Matches 728; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 3073 AAGAGTTAAGTGTATTTGTAATTCACAACTATCATGCAAAATACAGTAAGTAGA 3132
DB |||||
731 AAGAGTTAAGTGTATTTGTAATTCACAACTATCATGCAAAATACAGTAAGTAGA 672
QY 3133 CAAGATAAAGTGGTTGAGATCAAAAGAACCTAACATTATTTACAGTAGATGGTTT 3192
DB |||||
671 CAGATAAAGTGGTTGAGATCAAAAGAACCTAACATTATTTACAGTAGATGGTTT 612
QY 3193 AATACAAATTAAGTCCCTAAATATCTCTGGCAATGTACAGAAATATTTATATTAC 3252
DB |||||
611 AATACAAATTAAGTCCCTAAATATCTCTGGCAATGTACAGAAATATTTATATTAC 552
QY 3253 TAGTAATTTGTAGAGTAAATACAAATCATGGTGACACTTCCAAATTAAGTGCAT 3312
DB |||||
551 TAGTAATTTGTAGAGTAAATACAAATCATGGTGACACTTCCAAATTAAGTGCAT 492
QY 3313 AATGAAAGTAAAGTCACTTATTAATTTTCAAGTTGGTTTCCAAATGAGAAAGTGGG 3372
DB |||||
491 AATGAAAGTAAAGTCACTTATTAATTTTCAAGTTGGTTTCCAAATGAGAAAGTGGG 432
QY 3373 AATTTGATTTTGTGTTTGTATTAAGTATTAAGTATTAAGTATTAAGTATTAAGT 3432
DB |||||
431 AATTTGATTTTGTGTTTGTATTAAGTATTAAGTATTAAGTATTAAGTATTAAGT 372
QY 3433 TTGCTTTTCATAGAGGCAAGTAGGACAGATAGATGAAAGGAGGCACTGAA 3492
DB |||||
371 TTGCTTTTCATAGAGGCAAGTAGGACAGATAGATGAAAGGAGGCACTGAA 312
QY 3493 AAGTGAATTTGATAGCTCAGCTTTTAAGCATGATTACATTCAGATAGCTTTTGT 3552
DB |||||
311 AAGTGAATTTGATAGCTCAGCTTTTAAGCATGATTACATTCAGATAGCTTTTGT 252
QY 3553 TTCTATAAATATATGCAATTTGTGTAGTAAATAGTAAATAGTAAATAGTAAATAGT 3612
DB |||||
251 TTCTATAAATATATGCAATTTGTGTAGTAAATAGTAAATAGTAAATAGTAAATAGT 192

US-09-930-213-163/c
; Sequence 163, Application US/09932213
; Publication No. US20030178625A1
; GENERAL INFORMATION:
; APPLICANT: ROSENTHAL, ANDRE
; APPLICANT: HINZMANN, BERND
; APPLICANT: SCHAEFER, REINHARD
; APPLICANT: ZUBER, JOHANNES
; APPLICANT: TCHEN-NITSE, OLÉG
; APPLICANT: GRIPS, MARTIN
; APPLICANT: HELMKEGEL, MARTIN
; APPLICANT: SCHMITZ, ANNE-CHANTAL
; APPLICANT: SERIS, CHRISTINE
; TITLE OF INVENTION: DETECTION OF DIFFERENTIAL GENE EXPRESSIONS
; FILE REFERENCE: ALBRE-14
; CURRENT APPLICATION NUMBER: US/09/930,213
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: DE 10004102.7
; PRIOR FILING DATE: 2000-01-31
; NUMBER OF SEQ ID NOS: 885
; SOFTWARE: PatentIn ver. 2.1
; SEQ ID NO 163
; LENGTH: 491
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-930-213-163

Query Match 9.1%; Score 490; DB 12; Length 491;
Best Local Similarity 100.0%; Pred. No. 1.9e-103;
Matches 490; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3736 ATAAGTGTGTATTAAGTAAATTTATTTCTCCAAATCGAGAGTGAATTTTAAAAATTT 3845
DB |||||
431 ATAAGTGTGTATTAAGTAAATTTATTTCTCCAAATCGAGAGTGAATTTTAAAAATTT 432
QY 3846 TTATCTTTTATATGGTTTCAGAGTATGAACACAGCTTTCTTTTATTTATTTCTGGATCAT 3905
DB |||||
431 TTATCTTTTATATGGTTTCAGAGTATGAACACAGCTTTCTTTTATTTATTTCTGGATCAT 372
QY 3906 TTGTCTTTTATTAACATAGTTGTGACTGTTTAAATATGAGACCTGCTAGAAATTTGGAACACTTT 3965
DB |||||
371 TTGTCTTTTATTAACATAGTTGTGACTGTTTAAATATGAGACCTGCTAGAAATTTGGAACACTTT 312
QY 3966 CAATTAAGTCAAGGTTATTTGTCATTAATAGAAATTTGAGTGTGACTGAGATATTTGTTTACCA 4025
DB |||||
311 CAATTAAGTCAAGGTTATTTGTCATTAATAGAAATTTGAGTGTGACTGAGATATTTGTTTACCA 252
QY 4026 TGGAGGCGCAATGCTTTTTCATCTTATTAATGTGATGTGACTTTTCTTTCTTTGTACAGAA 4085
DB |||||
251 TGGAGGCGCAATGCTTTTTCATCTTATTAATGTGATGTGACTTTTCTTTCTTTGTACAGAA 192
QY 4086 CAGTACTGTATTTTGTGAATAGCTTACTCCCAAGTAAGAGCAATCTGTATGTATGAACATTT 4145
DB |||||
191 CAGTACTGTATTTTGTGAATAGCTTACTCCCAAGTAAGAGCAATCTGTATGTATGAACATTT 132
```



Db 421 TTITAGTAGTGATGCTTTCCTTGTTGT 447

## RESULT 13

US-09-822-846-560  
Sequence 560, Application US/09822846  
Publication No. US20030027139A1  
GENERAL INFORMATION:  
APPLICANT: Jacobs, Kenneth  
APPLICANT: McCoy, John M.  
APPLICANT: Lavallee, Edward R.  
APPLICANT: Collins-Racie, Lisa A.  
APPLICANT: Evans, Cheryl  
APPLICANT: Merberg, David  
APPLICANT: Treacy, Maurice  
APPLICANT: Agostino, Michael J.  
APPLICANT: Steininger II, Robert J.  
APPLICANT: Bowman, Michael R.  
APPLICANT: Spaulding, Vikki  
APPLICANT: Wong, Gordon G.  
APPLICANT: Clark, Hilary  
APPLICANT: Fehren, Klm  
APPLICANT: Howes, Steven H.  
APPLICANT: Resnick, Richard J.  
APPLICANT: Gulkota, Kamalakaz  
APPLICANT: Grabam, James R.  
APPLICANT: Genetics Institute, Inc.  
TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING NOVEL SECRETED PROTEIN  
FILE REFERENCE: GIN 6400  
CURRENT APPLICATION NUMBER: US/09/822,846  
CURRENT FILING DATE: 2001-03-29  
PRIOR APPLICATION NUMBER: 60/195,605  
PRIOR FILING DATE: 2000-04-06  
NUMBER OF SEQ ID NOS: 629  
SOFTWARE: Patent In Ver. 2.0  
SEQ ID NO: 560  
LENGTH: 469  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-822-846-560

Query Match 7.8%; Score 420.2; DB 11; Length 469;

Best Local Similarity 97.7%; Pred. No. 3.1e-97;

Matches 458; Conservative 0; Mismatches 8; Indels 3; Gaps 3;

QY 3865 AAATTATTTCTCCAAATCGAGAGTCAATTTTAAATAATTTTATCTTTATATGTTTC 3864

Db 1 AAATTATTTCTCCAAATCGAGAGTCAATTTTAAATAATTTTATCTTTATATGTTTC 60

QY 3865 AGAAGTATCAACACAGTCTTTTATTTATTTGAGATCAATTTGTTTATACATAGTT 3924

Db 61 AGAAGTATCAACACAGTCTTTTATTTATTTGAGATCAATTTGTTTATACATAGTT 120

QY 3925 GTTGACTGTTAATGAGCTGCTAGAAATTTGGATCAGCTTCAATTTGAGTCAGGTTAT 3984

Db 121 GTTGACTGTTAATGAGCTGCTAGAAATTTGGATCAGCTTCAATTTGAGTCAGGTTAT 180

QY 3985 GTGCATATAGAAAGTATGGACTGAGATTTGGTTACCACTGGAGCCCAATGCTTTT 4044

Db 181 GTGCATATAGAAAGTATGGACTGAGATTTGGTTACCACTGGAGCCCAATGCTTTT 239

QY 4045 CATCTTATTAATGATGAGCTTTTCTTTTGTACAGAAAGTACTGTTATTTGANT 4104

Db 240 CATCTTATTAATGATGAGCTTTTCTTTTGTACAGAAAGTACTGTTATTTGANT 299

QY 4105 AGCCTACTCCCAAGTAAGACCAATCTGTATGATCAACATTTTCTCTGGACATAGAC 4164

Db 300 AGCCTACTCCCAAGTAAGACCAATCTGTATGATCAACATTTTCTCTGGACATAGAC 358

QY 4165 ATACAGTAAACAGTGTACATTTACAGCGCTTATGATCTTCCCAACATCTTT 4224

Db 359 ATACAGTAAACAGTGTACATTTACAGCGCTTATGATCTTCCCAACATCTTT 417

QY 4225 TAAGCGAATTTGTGACCATATGTTATATAATAAATCGTTTTAAATCC 4273

Db 418 TAAGCGAATTTGTGACCATATGTTATATAATAAATCGTTCTTAATCC 466

## RESULT 14

US-09-918-995-35949  
Sequence 35949, Application US/09918995  
Publication No. US20030073623A1  
GENERAL INFORMATION:  
APPLICANT: Hyseq, Inc.  
TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED  
FROM VARIOUS CDNA LIBRARIES  
FILE REFERENCE: 20411-756  
CURRENT APPLICATION NUMBER: US/09/918,995  
CURRENT FILING DATE: 2001-07-30  
PRIOR APPLICATION NUMBER: US/09/235,076  
PRIOR FILING DATE: 1999-01-20  
NUMBER OF SEQ ID NOS: 3854  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO: 35949  
LENGTH: 429  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: 11...429  
OTHER INFORMATION: n = A,T,C or G  
US-09-918-995-35949

Query Match 7.7%; Score 416; DB 11; Length 429;

Best Local Similarity 100.0%; Pred. No. 2.8e-86;

Matches 416; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3277 TACAAATCATGGTGACACTTCCAAATTAAGTGCACTAAATGAAAAGTTAAGTCACCTATT 3336

Db 13 TACAAATCATGGTGACACTTCCAAATTAAGTGCACTAAATGAAAAGTTAAGTCACCTATT 72

QY 3337 AACTTTTCAGTTTGGTTTGAATGAGAAAGAGTGGAATTTGTTATTTGTTTCTTATA 3396

Db 73 AACTTTTCAGTTTGGTTTGAATGAGAAAGAGTGGAATTTGTTATTTGTTTCTTATA 132

QY 3397 GAATACAGACATGCTGAGGAAGTTGAGCTTAATTTCTTTTTCATAGAGCAGAAA 3456

Db 133 GAATACAGACATGCTGAGGAAGTTGAGCTTAATTTCTTTTTCATAGAGCAGAAA 192

QY 3457 GTAGGAACCATAGATAGATGAAAAGGGGCCACTGAAAAGTGAATTTGATAGCTCAGCAT 3516

Db 193 GTAGGAACCATAGATAGATGAAAAGGGGCCACTGAAAAGTGAATTTGATAGCTCAGCAT 252

QY 3517 TAAGCATGATTACATATTTCAGATAGCTCTTTTCTTTTCTTATAAATATATGATGTTGTG 3576

Db 253 TAAGCATGATTACATATTTCAGATAGCTCTTTTCTTTTCTTATAAATATATGATGTTGTG 312

QY 3577 TGTAGTAATAGATCTAAGTTACACTTGAAGAGAAATCTGTTCAATGTTTATTATAA 3636

Db 313 TGTAGTAATAGATCTAAGTTACACTTGAAGAGAAATCTGTTCAATGTTTATTATAA 372

QY 3637 AAGCTTCTTAATTTAGTAGTAGTGTCTTTCTTCTTGTGTACAGGTGACATTTGTA 3692

Db 373 AAGCTTCTTAATTTAGTAGTAGTGTCTTTCTTCTTGTGTACAGGTGACATTTGTA 428

## RESULT 15

US-09-918-995-39931  
Sequence 9931, Application US/09918995  
Publication No. US20030073623A1  
GENERAL INFORMATION:  
APPLICANT: Hyseq, Inc.  
TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED  
FROM VARIOUS CDNA LIBRARIES  
FILE REFERENCE: 20411-756  
CURRENT APPLICATION NUMBER: US/09/918,995

Search completed: October 16, 2003, 15:02:32  
Job time : 1287 secs